
Service Bulletin

October 1, 1993

SEB93-15

TITLE

ELECTRICAL PUSH-PULL SWITCH REPLACEMENT

EFFECTIVITY

<u>Model Series</u>	<u>Year</u>	<u>Serial Numbers</u>
172 (T41A)	1965 thru 1969	17251947 thru 17259015
R172 (T41B)	1967	R172-0001 thru R172-0255
R172 (T41C)	1968	R172-0257 thru R172-0301
R172 (T41C)	1969	R1720426 thru R1720432
R172 (T41D)	1968 thru 1969	R172-0302 thru R172-0409
R172 (T41D)	1970	R1720410 thru R1720425
R172 (T41D)	1970	R1720433 thru R1720444

PURPOSE

To announce the availability of modification Service Kits to replace existing electrical push-pull switches with toggle switches for the master, pitot heat, navigation, beacon, strobe and landing light systems. The original push-pull switches are no longer available. New toggle switches should be installed whenever an existing push-pull switch requires replacement.

COMPLIANCE

Recommended; should be accomplished whenever a push-pull master, pitot heat, navigation, beacon, strobe or landing light switch requires replacement, or earlier if so desired.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

MAN-HOURS

Approximately 0.5 man-hour per switch, actual time will vary depending upon accessory equipment installed.

MATERIAL

The following parts are available from Cessna Parts Distribution thru an appropriate Cessna Service Station for the suggested list prices shown.

<u>Part Number</u>	<u>Description</u>	<u>Serial Numbers</u>	<u>Qty/ Airplane</u>	<u>Price</u>
SK172-137-1	T41A Master Switch Replacement Kit	17251947 thru 17253392 17254405 thru 17254544	1	\$ 48.40 (A) ea.
SK172-137-2	T41A Landing Light Switch Replacement Kit	17251947 thru 17254544 172556280 thru 17259015	1	\$ 70.80 (A) ea.
SK172-137-3	T41A Master Switch Replacement Kit	17256280 thru 17256346	1	\$ 52.30 (A) ea.
SK172-137-4	T41A Flashing/ Rotating Beacon Light Switch Replacement Kit	17251947 thru 17254544 172556280 thru 17259015	1	\$ 50.60 (A) ea.
SK172-137-4	T41A Strobe Light Switch Replacement Kit	17259003, 17259006 17259007, 17259009 17259012, 17259013 17259015	1	\$ 50.60 (A) ea.
SK172-137-5	T41A Navigation Light Switch Replacement Kit	17251947 thru 17254544 172556280 thru 17259015	1	\$ 60.40 (A) ea.
SK172-138-1	T41B Master Switch Replacement Kit	R172-0001 thru R172-0255	1	\$ 49.10 (A) ea.
SK172-138-2	T41B Pitot Heat or Beacon Light Switch Kit	R172-0001 thru R172-0255	1 (Per System)	\$ 55.90 (A) ea.
SK172-138-3	T41B Navigation Light Switch Replacement Kit	R172-0001 thru R172-0255	1	\$ 55.10 (A) ea.

<u>Part Number</u>	<u>Description</u>	<u>Serial Numbers</u>	<u>Qty/ Airplane</u>	<u>Price</u>
SK172-138-4	T41B Landing Light Switch Replacement Kit	R172-0001 thru R172-0255	1	\$ 71.10 (A) ea.
SK172-139-1	T41C Master Switch Replacement Kit	R172-0257 thru R172-0301	1	\$ 53.70 (A) ea.
SK172-139-2	T41C Pitot Heat or Beacon Light or Strobe Light Switch Replacement Kit	R172-0257 thru R172-0301 R1720426 thru R1720432	1 (Per System)	\$ 50.60 (A) ea.
SK172-139-3	T41C Navigation Light Switch Replacement Kit	R172-0257 thru R172-0301 R1720426 thru R1720432	1	\$ 49.10 (A) ea.
SK172-139-4	T41C Landing Light Switch Replacement Kit	R172-0257 thru R172-0301 R1720426 thru R1720432	1	\$ 71.10 (A) ea.
SK172-140-1	T41D Master Switch Replacement Kit	R172-0302 thru R172-0409	1	\$ 51.00 (A) ea.
SK172-140-2	T41D Pitot Heat or Beacon Light Switch Replacement Kit	R172-0302 thru R1720425 R1720433 thru R1720444	1 (Per System)	\$ 50.60 (A) ea.
SK172-140-3	T41D Navigation Light Switch Replacement Kit	R172-0302 thru R1720425 R1720433 thru R1720444	1	\$ 50.60 (A) ea.
SK172-140-4	T41D Landing Light Switch Replacement Kit	R172-0302 thru R1720425 R1720433 thru R1720444	1	\$ 71.10 (A) ea.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ACCOMPLISHMENT INSTRUCTIONS

The following Service Kit Instructions are attached:

SK172-137, Push-Pull Switch Replacement - T41A

SK172-138, Push-Pull Switch Replacement - T41B

SK172-139, Push-Pull Switch Replacement - T41C

SK172-140, Push-Pull Switch Replacement - T41D

CREDIT

Not Applicable

OWNER NOTIFICATION

On October 15, 1993 the following Owner Advisory message will be sent to applicable owners of record in SEB93-15A.

Dear Cessna Owner,

This letter is to inform you that modification Service Kits are available to replace the original push-pull electrical switches installed in your airplane. The original switches are not available and should be replaced with new toggle switches when switch replacement is required.

Compliance is recommended; should be accomplished whenever a push-pull master, pitot heat, navigation, beacon, strobe or landing light switch requires replacement, or earlier if so desired.

Please contact a Cessna Single Engine Service Station for detailed information regarding the accomplishment of this Service Bulletin on your airplane.

* * * * *

TITLE PUSH-PULL SWITCH REPLACEMENT - T41A

EFFECTIVITY

MODEL(S)

SERIAL NUMBERS

172 (T41A)

17251947 thru 17259015

DESCRIPTION

The following procedures provide instructions to replace existing electrical push-pull switches on the instrument panel.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

SEB93-15

CHANGE IN WEIGHT AND BALANCE

MODEL 172 (T41A)

WEIGHT INCREASE Negligible

October 1, 1993

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To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. The Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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SERVICE KIT

SK172-137

MATERIAL INFORMATION

Master Switch Replacement for Serials 17251947 thru 17253392 and 17254405 thru 17254544.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-137-1	1	Kit, Consisting of the following parts:
MS24524-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
	1	Instructions

Landing Light Switch Replacement for Serials 17251947 thru 17254544 and 17256280 thru 17259015.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-137-2	1	Kit, Consisting of the following parts:
MS27407-1	1	Switch
S1367-1-6	3	Terminal
0509106-7	1	Placard
0509106-8	1	Jumper Wire
	1	Instructions

Master Switch Replacement for Serials 17256280 thru 17256346.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-137-3	1	Kit, Consisting of the following parts:
MS24524-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
0770719-3	1	Diode Assembly
	1	Instructions

SERVICE KIT

SK172-137

Rotating Beacon, Flashing Beacon & Strobe Light Switch Replacement for Serials 17251947 thru 17252544, 17256280 thru 17259015, 17259003, 17256006, 17259007, 17259009, 17259012, 17259013 and 17259015.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-137-4	1	Kit, Consisting of the following parts:
MS24523-22	1	Switch
S1367-1-6	2	Terminal
0509106-6	1	Placard
	1	Instructions

Nav Light Switch Replacement for Serials 17251947 thru 17254544 and 17256280 thru 17259015.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-137-5	1	Kit, Consisting of the following parts:
MS24523-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
	1	Instructions

ACCOMPLISHMENT INSTRUCTIONS

1. Master Switch Replacement (SK172-137-1 and SK172-137-3).
 - A. Remove upper cowling. Disconnect electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail A, Sheets 2 and 3) Gain access and remove existing master switch from instrument panel. Disconnect wiring and remove and discard switch. Refer to applicable Detail A to match serial number of airplane.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
 - D. (Refer to Figure 1, Detail E, Sheet 7) Enlarge existing cutout in the instrument panel where the old switch was removed per dimensions shown. Deburr and clean hole as required.
 - E. (Refer to Figure 1, Details A, Sheets 2 & 3) Install 0509106-6 placard on instrument panel as shown. Heat applied to placard will aid in adhesion to panel cover.
 - F. Connect the wires to the switch terminals as shown on the illustration.

NOTE: For serials 17256280 thru 17256346 add the 0770719-3 diode assembly to the switch as shown in detail A, sheet 3. Verify the proper position of the anode.

SERVICE KIT

SK172-137

- G. Install new switch in instrument panel using the hardware furnished with the switch.
- H. Reconnect battery cables, install cowl and check new switch for proper operation.

NOTE: If more than one switch is going to be installed, apply instructions as required.

2. Nav Light switch Replacement (SK172-137-5).

- A. Remove upper cowling. Disconnect electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:

WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS

- B. (Refer to Figure 1, Details B, Sheet 4) Gain access and remove existing nav light switch from instrument panel. Disconnect wiring and remove and discard switch. Refer to applicable illustration to match serial number of airplane.
- C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
- D. (Refer to Figure 1, Detail E, Sheet 7) Enlarge existing cutout in instrument panel where switch was removed per dimensions shown. Deburr and clean hole as required.
- E. (Refer to Figure 1, Details B, Sheet 4) Install 0509106-6 placard on instrument panel as shown. Heat applied to placard will aid in adhesion to panel cover.
- F. Connect wires to the switch terminals as shown in illustration.
- G. Install new switch in instrument panel using the hardware furnished with the switch.
- H. Reconnect battery cables, install cowl and check new switch for proper operation.

3. Rotating Beacon, Flashing Beacon and Strobe Light Switch Replacement (SK172-137-4).

- A. Remove upper cowling. Disconnect electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:

WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS

- B. (Refer to Figure 1, Details C, Sheet 5) Gain access and remove existing beacon light switch from instrument panel. Disconnect wiring and remove and discard switch. Refer to applicable illustration to match serial number of airplane.
- C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
- D. (Refer to Figure 1, Detail E, Sheet 7) Enlarge existing cutout in instrument panel where switch was removed per dimensions shown. Deburr and clean holes as required.
- E. (Refer to Figure 1, Details C, Sheet 5 & 6) Install 0509106-6 placard on instrument panel as shown. Heat applied to placard will aid in adhesion to panel cover.
- F. Connect wires to the switch terminals as shown in illustration.
- G. Install new switch in instrument panel using the hardware furnished with the switch.
- H. Reconnect battery cables, install cowl and check new switch for proper operation.

4. Landing Light Switch Replacement (SK172-137-2).

- A. Remove upper cowling. Disconnect electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:

WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS

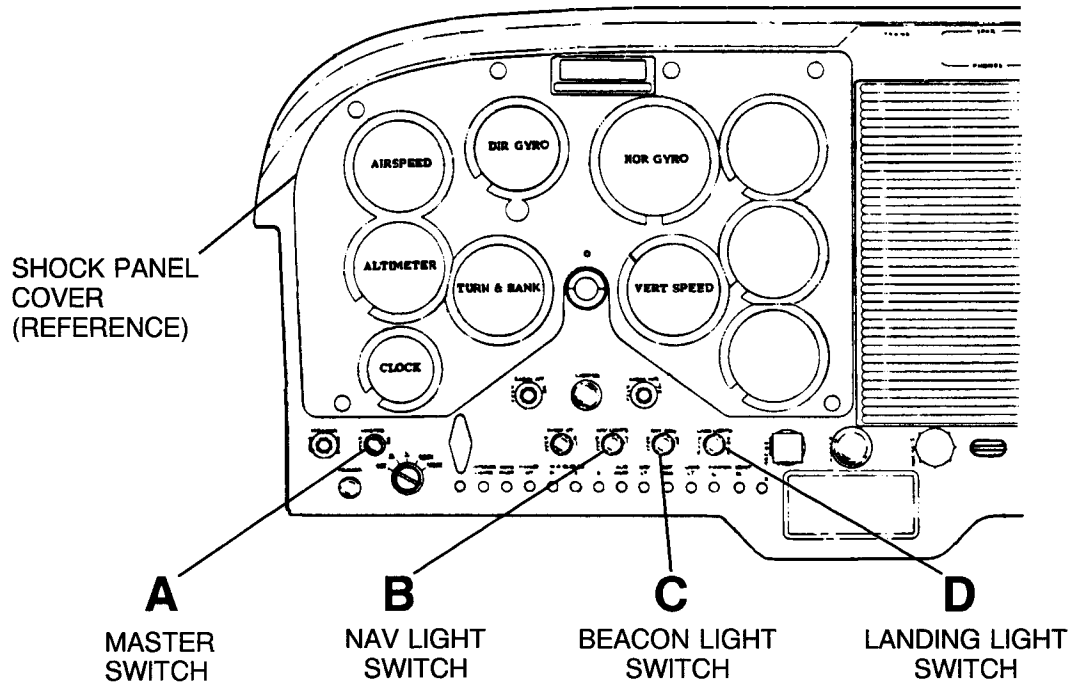
SERVICE KIT

SK172-137

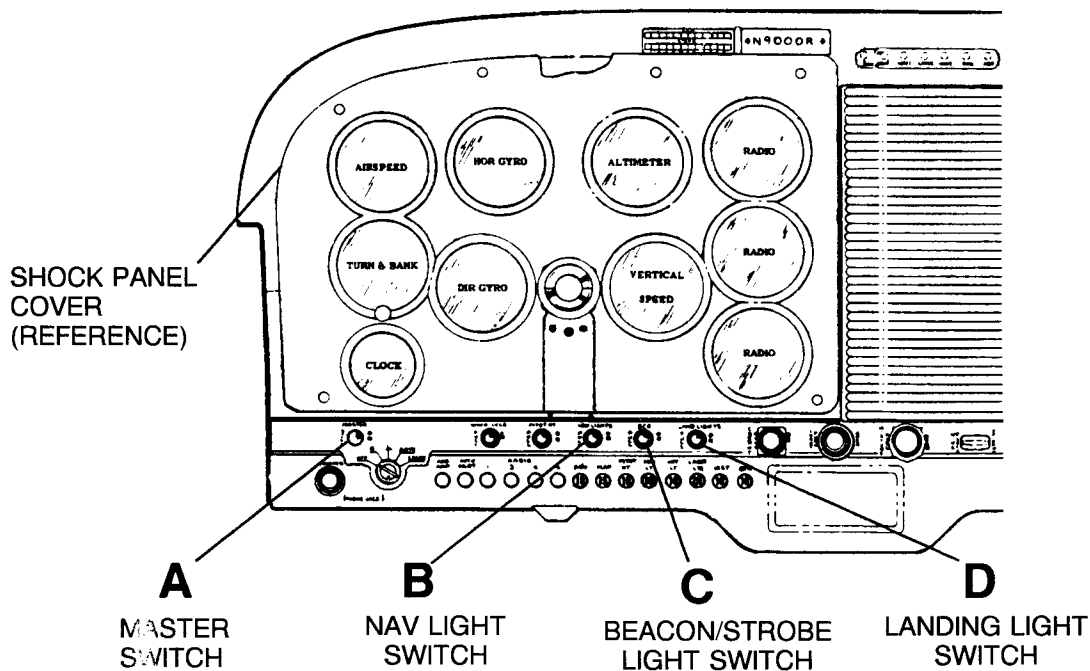
- B. (Refer to Figure 1, Details D, Sheet 6 & 7) Gain access and remove existing landing light switch from instrument panel. Disconnect wiring and remove and discard switch. Refer to applicable illustration to match serial number of airplane.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
 - D. (Refer to Figure 1, Detail E, Sheet 7) Enlarge existing cutout in instrument panel where switch was removed per dimensions shown. Deburr and clean hole as required.
 - E. (Refer to Figure 1, Detail D, Sheet 7) Install 0509106-7 placard on instrument panel as shown. Heat applied to placard will aid in adhesion to panel cover.
 - F. Connect wires to the switch terminals as shown on illustration.
 - G. Install new switch in instrument panel using the hardware furnished with the switch.
 - H. Reconnect battery cables, install cowl and check new switch for proper operation.
5. Make an entry in the airplane logbook stating which applicable service kit has been installed.

SERVICE KIT

SK172-137



AFFECTED SERIALS 17251947 THRU 17256512



AFFECTED SERIALS 17256513 THRU 17259015

Figure 1. Push-Pull Switch Replacement (Sheet 1 of 7)

SERVICE KIT

SK172-137

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

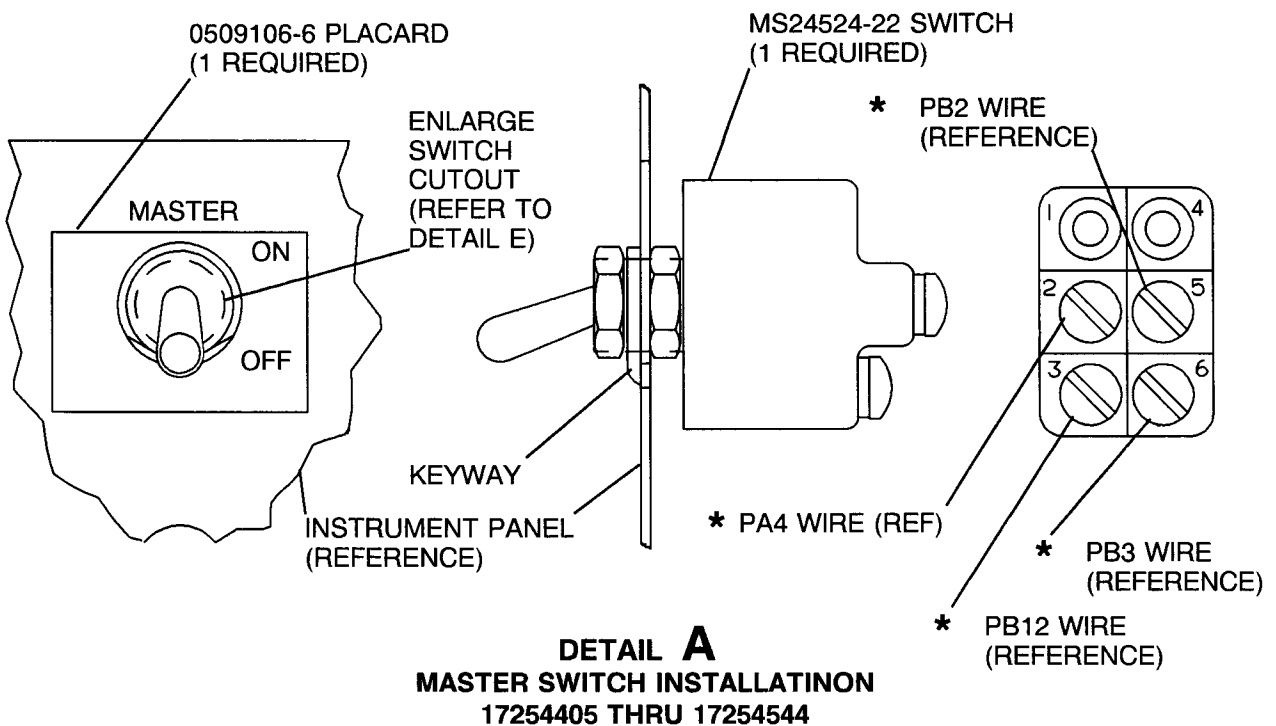
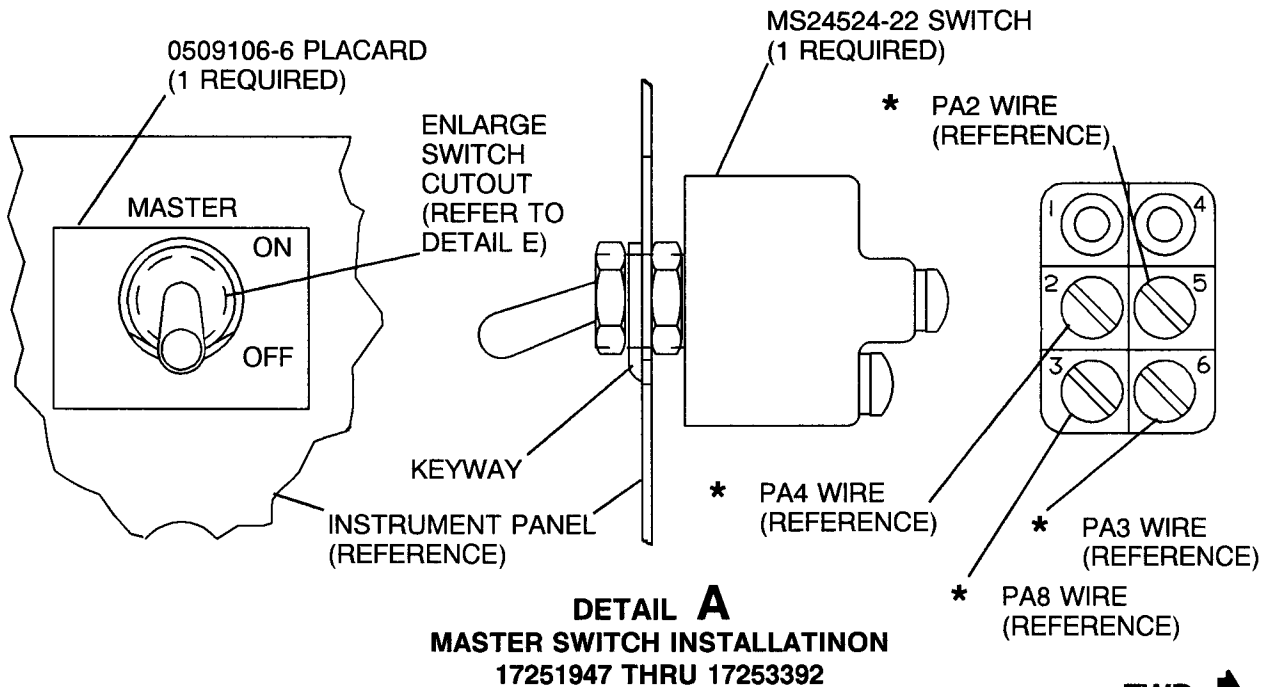
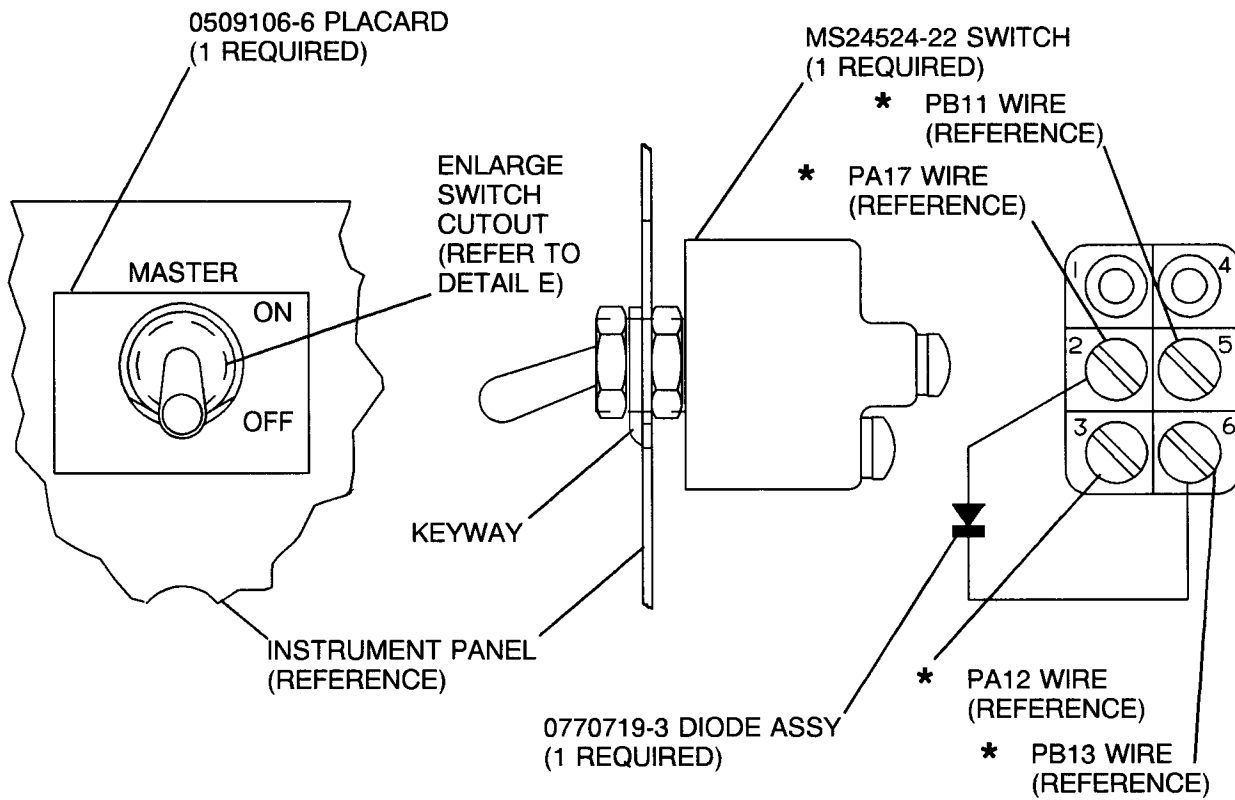


Figure 1. Push-Pull Switch Replacement (Sheet 2)

SERVICE KIT

SK172-137

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL



DETAIL A
MASTER SWITCH
17256280 THRU 17256346

FWD ➡

Figure 1. Push-Pull Switch Replacement (Sheet 3)

SERVICE KIT

SK172-137

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

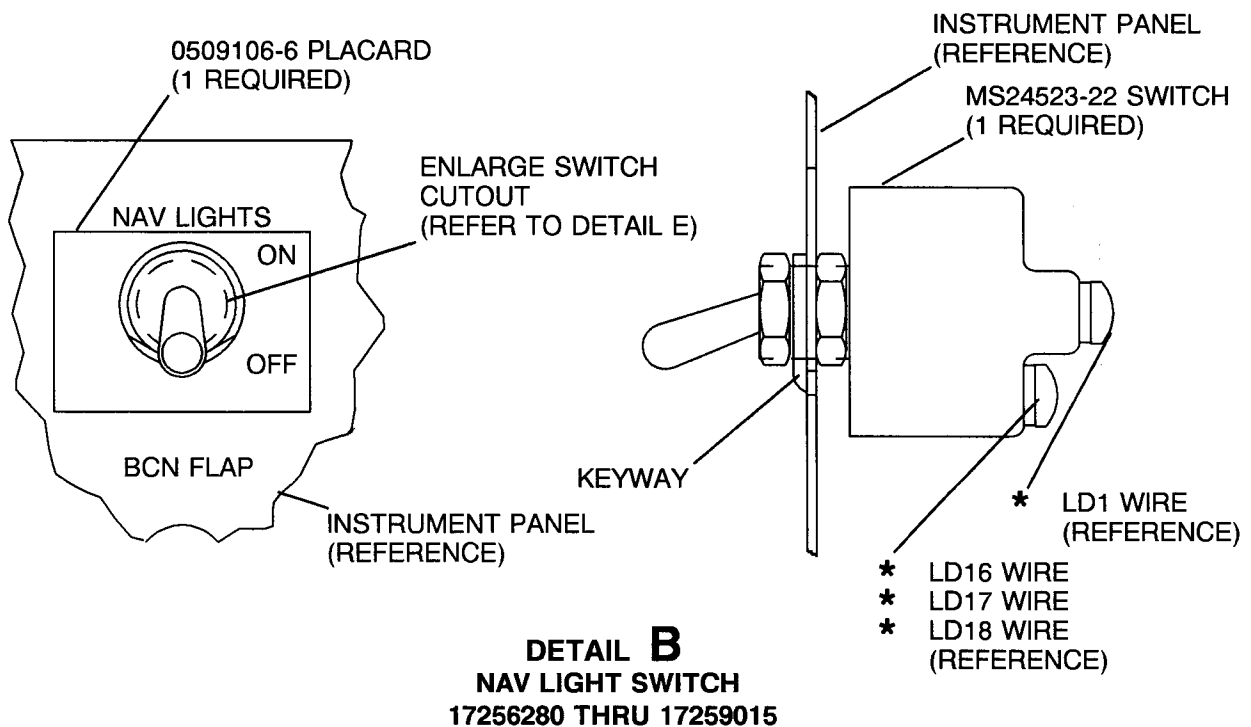
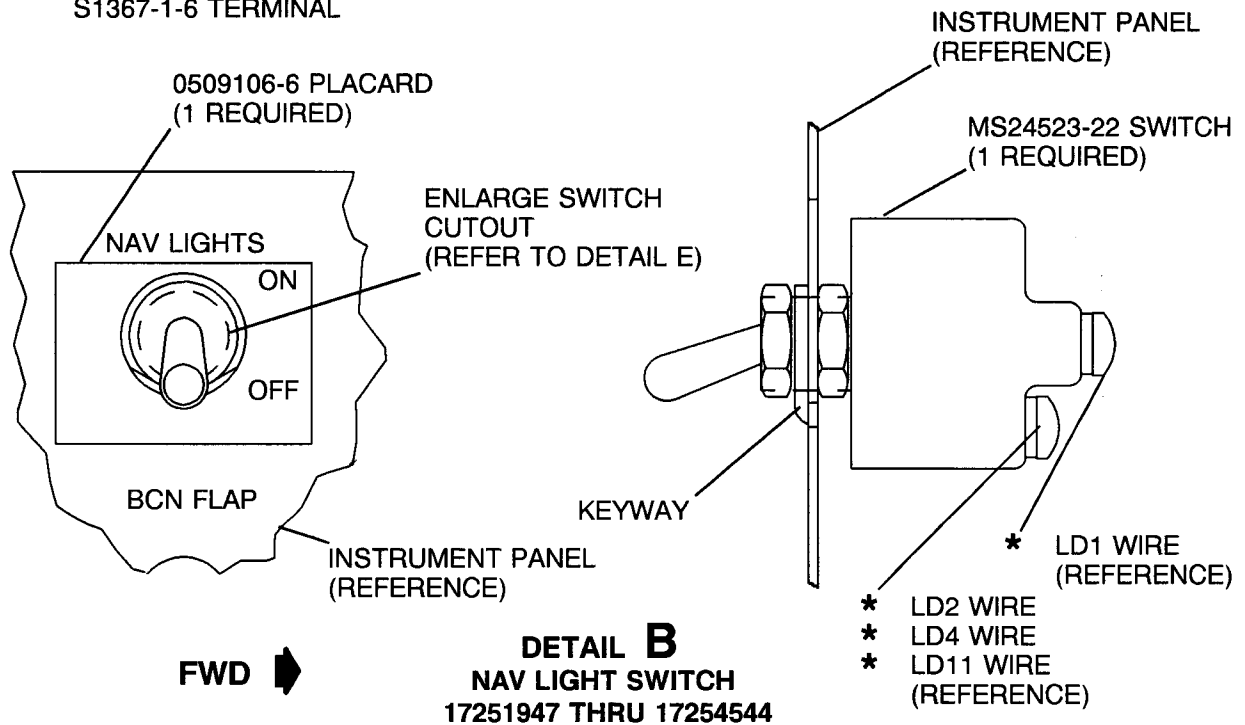
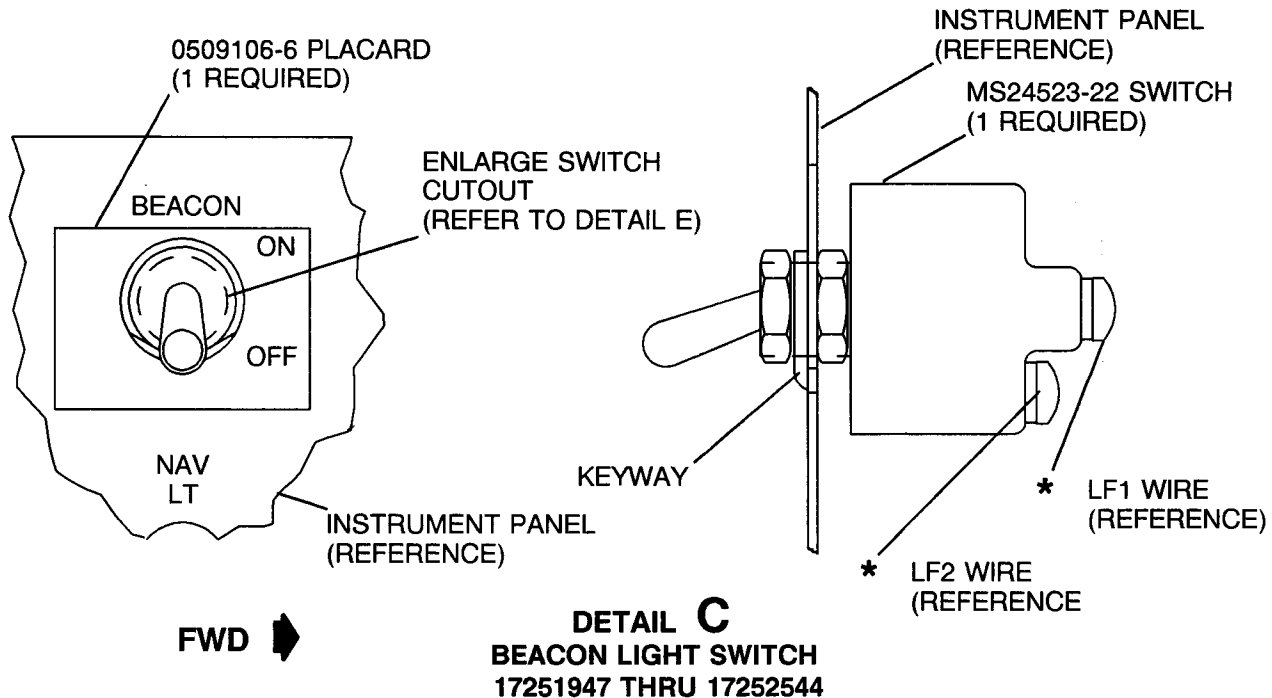


Figure 1. Push-Pull Switch Replacement (Sheet 4)

SERVICE KIT

SK172-137

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL



FWD ➡

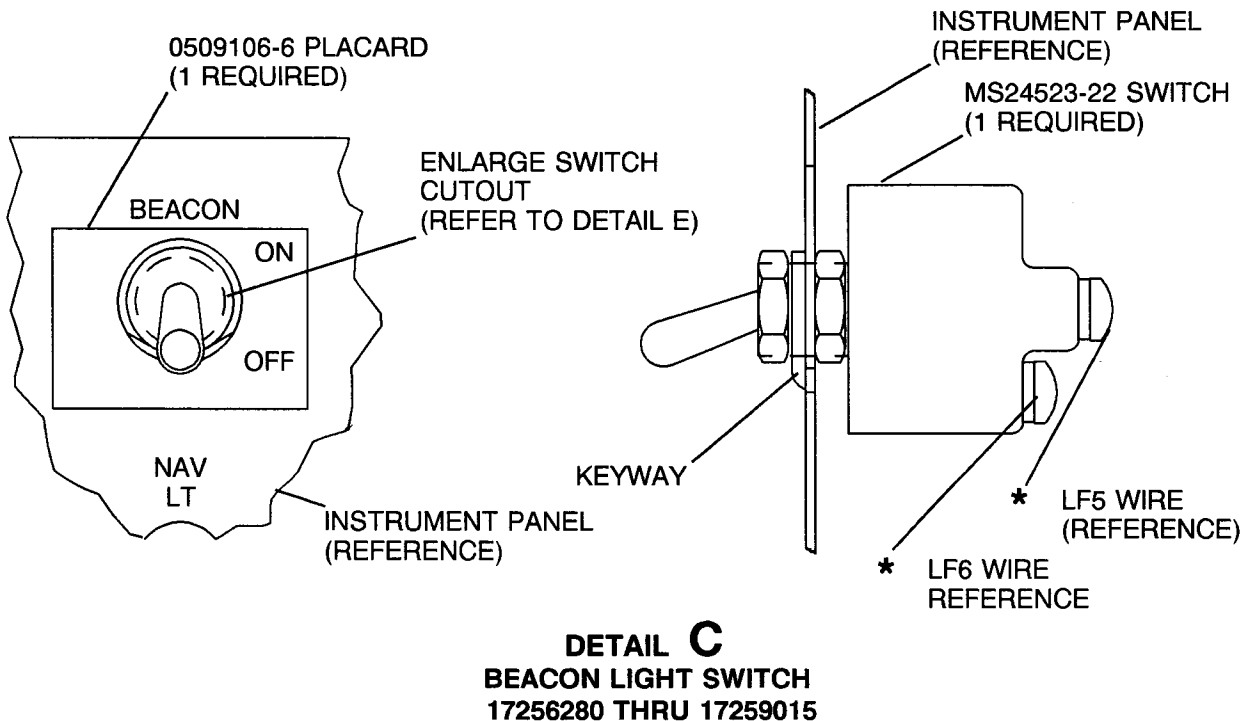


Figure 1. Push-Pull Switch Replacement (Sheet 5)

SERVICE KIT

SK172-137

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

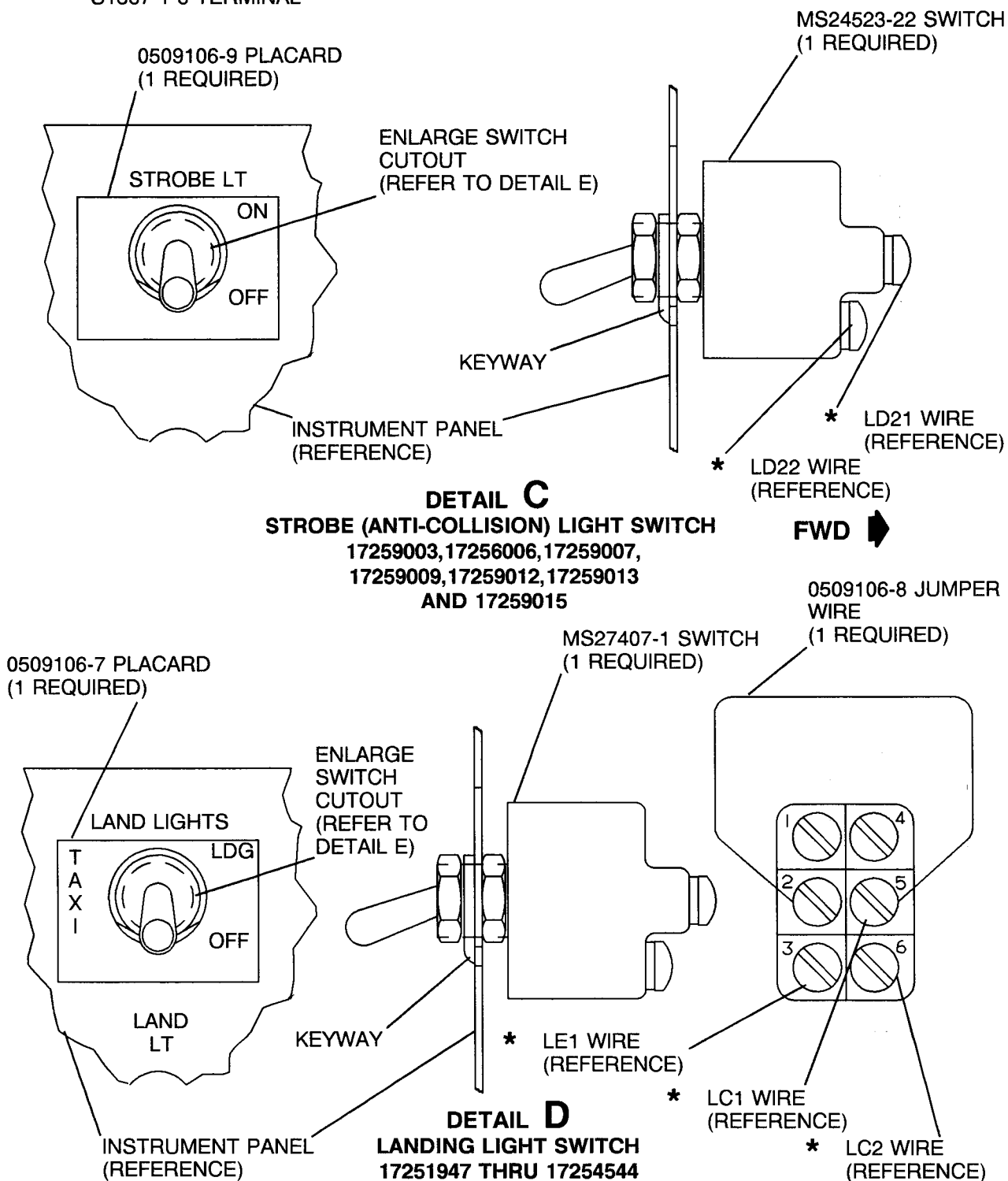


Figure 1. Push-Pull Switch Replacements (Sheet 6)

SERVICE KIT

SK172-137

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

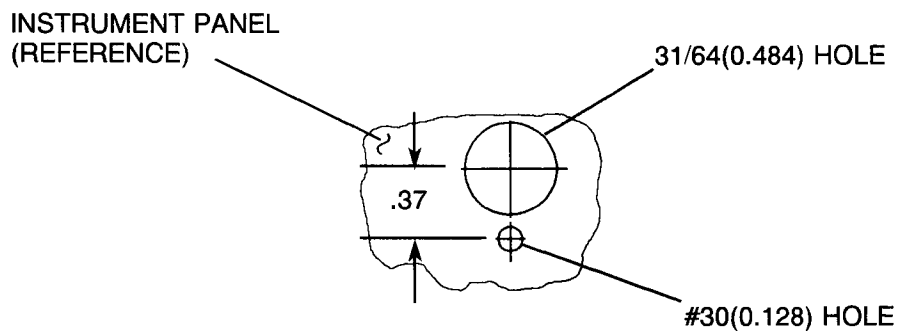
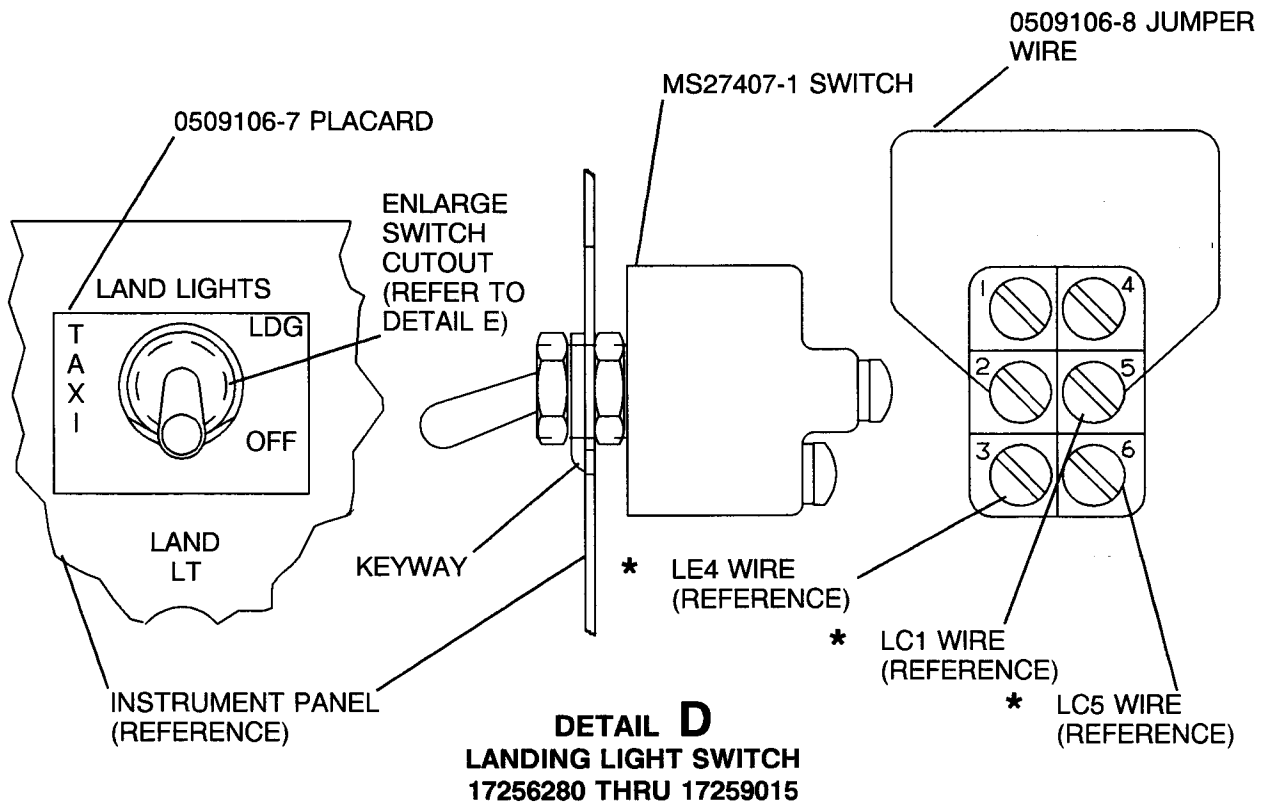


Figure 1. Push-Pull Switch Replacement (Sheet 7)

TITLE PUSH-PULL SWITCH REPLACEMENT - T41B**EFFECTIVITY****MODEL(S)****SERIAL NUMBERS**

R172 (T41B)

R172-0001 thru R172-0255

DESCRIPTION

The following procedures provide instructions to replace existing electrical push-pull switches on the instrument panel.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

SEB93-15

CHANGE IN WEIGHT AND BALANCE**MODEL** R172 (T41B)**WEIGHT INCREASE** Negligible

October 1, 1993

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To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. The Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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SERVICE KIT

SK172-138

MATERIAL INFORMATION

Master Switch Replacement.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-138-1	1	Kit, Consisting of the following parts:
MS24524-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
	1	Instructions

Pitot Heat and Beacon Light Switch Replacement.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-138-2	1	Kit, Consisting of the following parts:
MS24523-22	1	Switch
S1367-1-6	2	Terminal
0509106-6	1	Placard
	1	Instructions

Nav Light Switch Replacement.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-138-3	1	Kit, Consisting of the following parts:
MS24523-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
	1	Instructions

SERVICE KIT

SK172-138

Landing Light Switch Replacement.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-138-4	1	Kit, Consisting of the following parts:
MS27407-1	1	Switch
S1367-1-6	3	Terminal
0509106-7	1	Placard
0509106-8	1	Jumper Wire
	1	Instructions

ACCOMPLISHMENT INSTRUCTIONS

1. Master Switch Replacement (SK172-138-1).
 - A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail A, Sheet 2) Gain access and remove existing master switch from instrument panel. Disconnect wiring and remove and discard switch.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
 - D. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - E. (Refer to Figure 1, Detail A, Sheet 2) Install 0509106-6 placard on instrument panel as shown.
 - F. Connect the wires to the switch terminals as shown on the illustration.
 - G. Install new switch in instrument panel using hardware furnished with switch.
 - H. Reconnect battery cables and check new switch for proper operation.
NOTE: If more than one switch is going to be installed, apply instructions as required.
2. Pitot Heat or Beacon Light Switch Replacement (SK172-138-2).
 - A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail B, Sheet 2) Gain access and remove existing pitot heat switch, if required, from instrument panel. Disconnect wiring and remove and discard switch.
 - C. (Refer to Figure 1, Detail D, Sheet 3)..Gain access and remove existing beacon light switch, if required, from instrument panel. Disconnect wiring and remove and discard switch.
 - D. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the wires.
 - E. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.

SERVICE KIT

SK172-138

- F. (Refer to Figure 1, Details B or D, Sheet 2 or 3) Install 0509106-6 placard on instrument panel as shown.
 - G. Connect the wires to the switch terminals as shown on the illustration.
 - H. Install new switch in instrument panel using hardware furnished with switch.
 - I. Reconnect battery cables and check new switch for proper operation.
3. Nav Light Switch Replacement (SK172-138-3).
- A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail C, Sheet 3) Gain access and remove existing nav light switch from instrument panel. Disconnect wiring and remove and discard switch.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
 - D. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - E. (Refer to Figure 1, Detail C, Sheet 3) Install 0509106-6 placard on instrument panel as shown.
 - F. Connect the wires to the switch terminals as shown on the illustration.
 - G. Install new switch in instrument panel using hardware furnished with switch.
 - H. Reconnect battery cables and check new switch for proper operation.
4. Landing Light Switch Replacement (SK172-138-4).
- A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail E, Sheet 4) Gain access and remove existing landing light switch from instrument panel. Disconnect wiring and remove and discard switch.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires as shown.
 - D. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - E. Refer to Figure 1, Detail E, Sheet 4) Install 0509106-7 placard on instrument panel as shown.
 - F. Connect the wires to the switch terminals and install 0509106-8 jumper wire on switch terminals as shown on the illustration.
 - G. Install new switch in instrument panel using hardware furnished with switch.
 - H. Reconnect battery cables and check new switch for proper operation.
5. Make an entry in the airplane logbook stating which applicable service kit has been installed.

SERVICE KIT

SK172-138

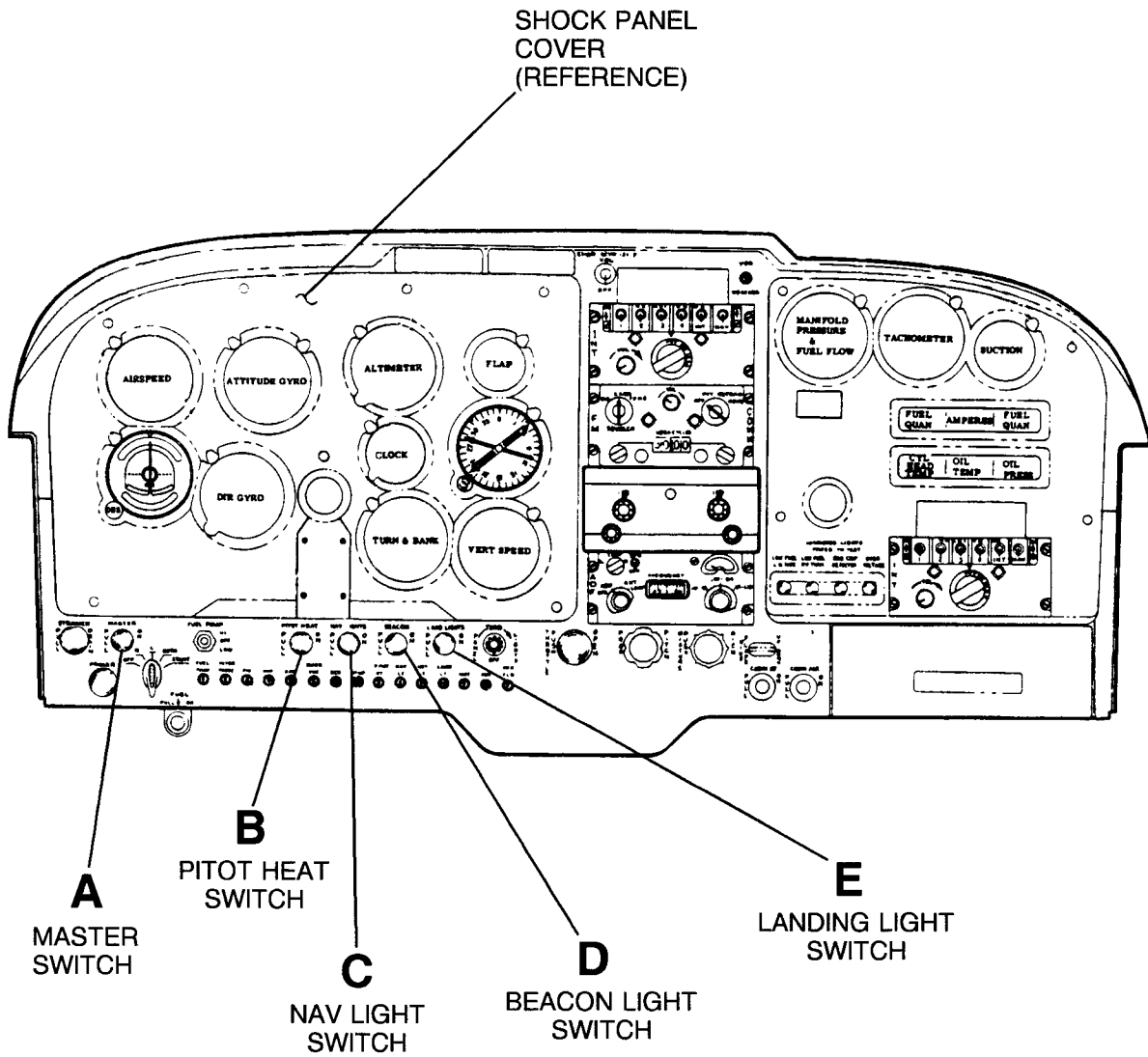


Figure 1. Push-Pull Switch Replacement (Sheet 1 of 4)

SERVICE KIT

SK172-138

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

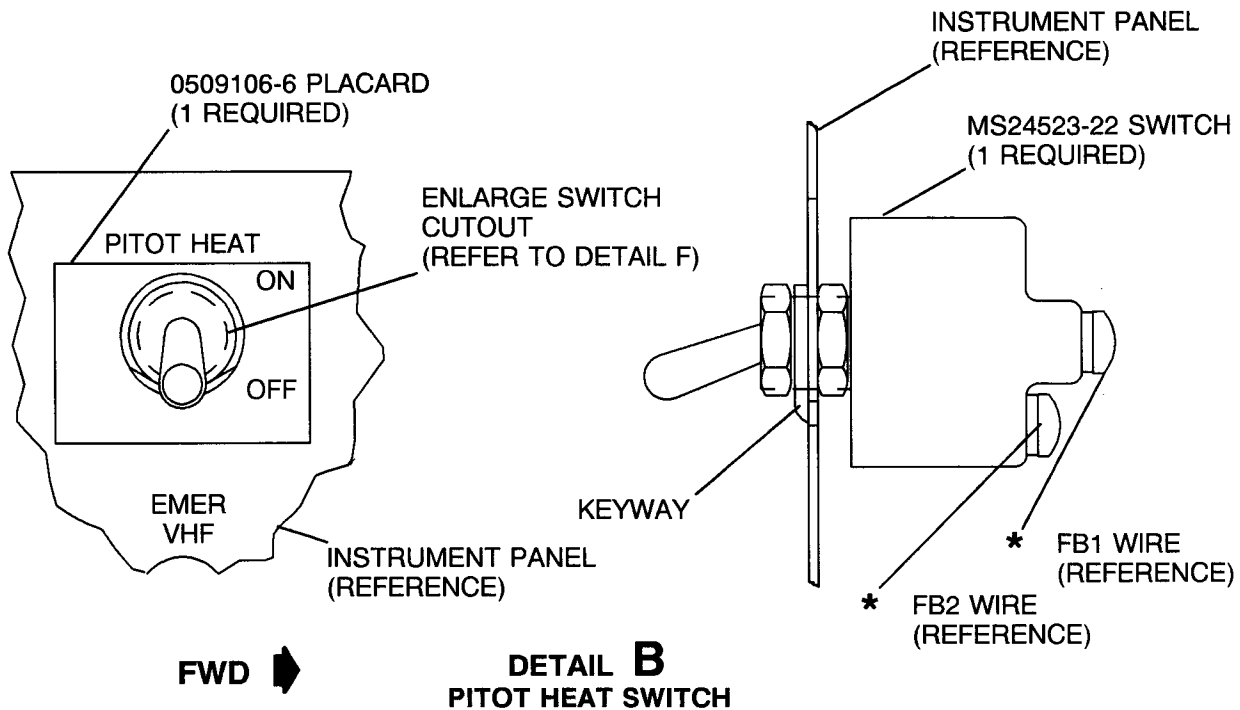
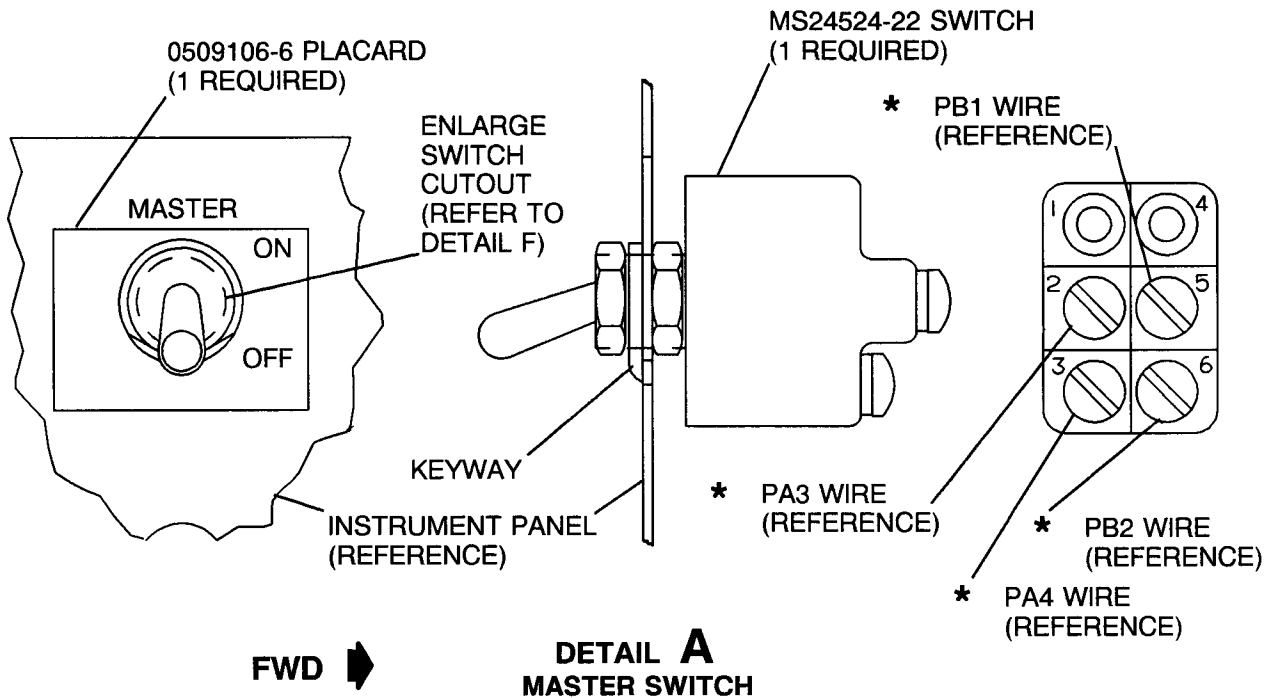


Figure 1. Push-Pull Switch Replacement (Sheet 2)

SERVICE KIT

SK172-138

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

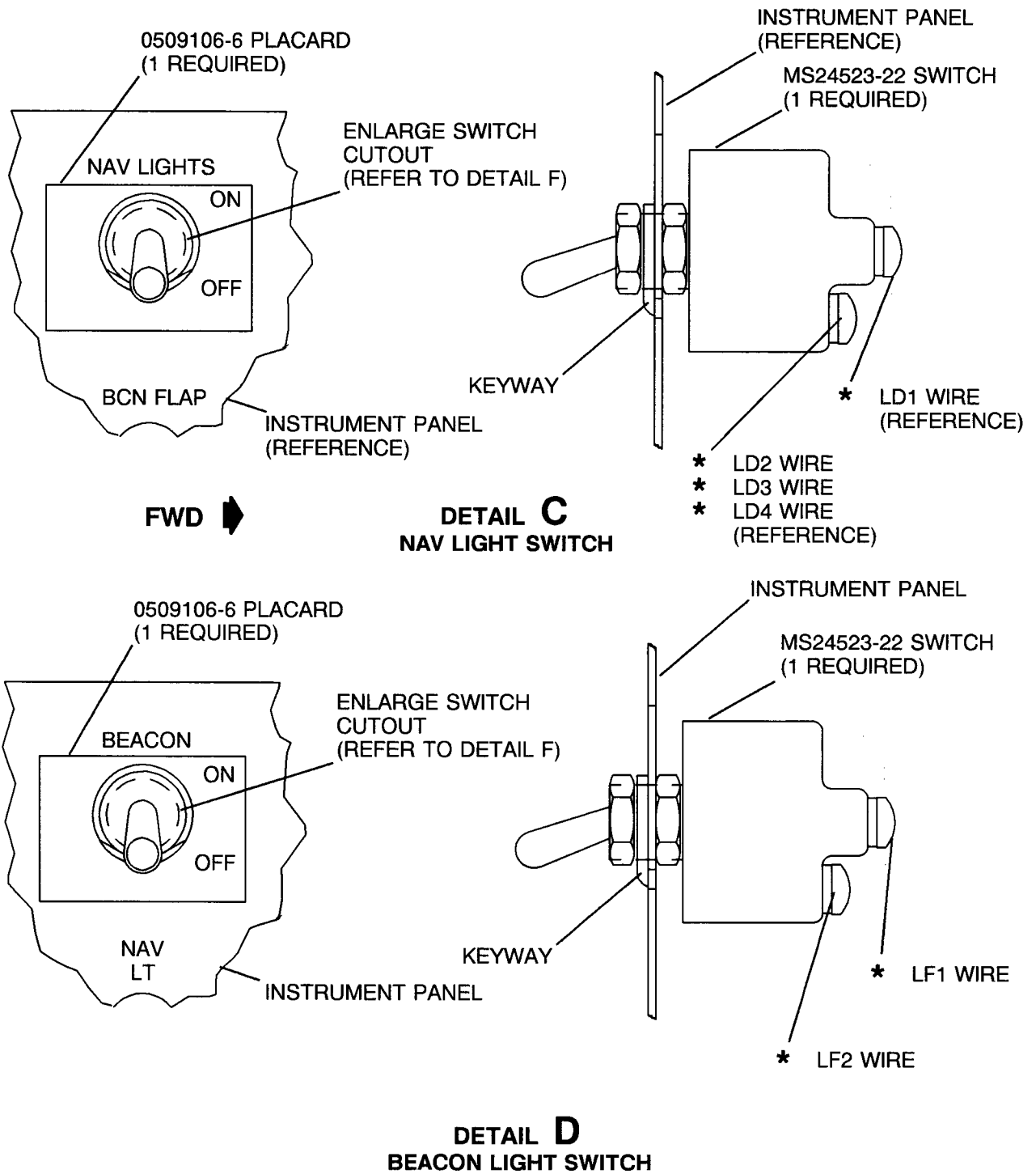


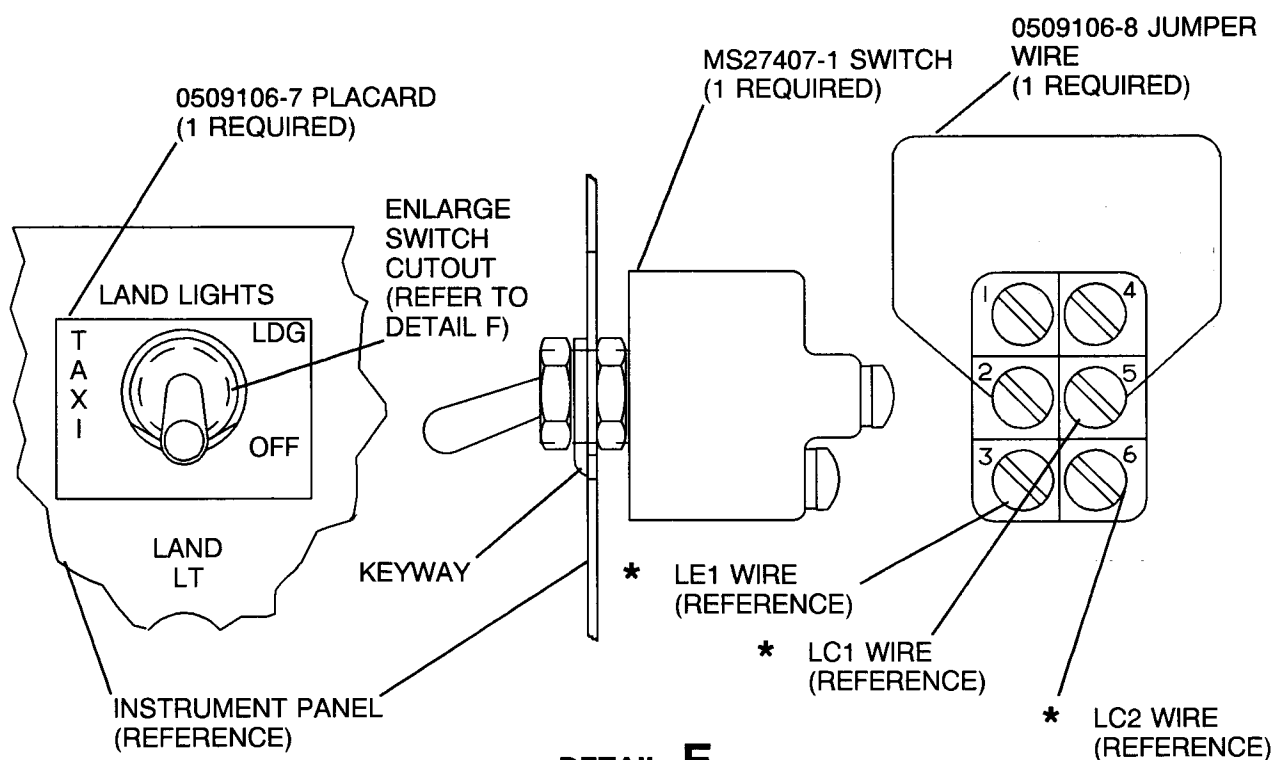
Figure 1. Push-Pull Switch Replacement (Sheet 3)

SERVICE KIT

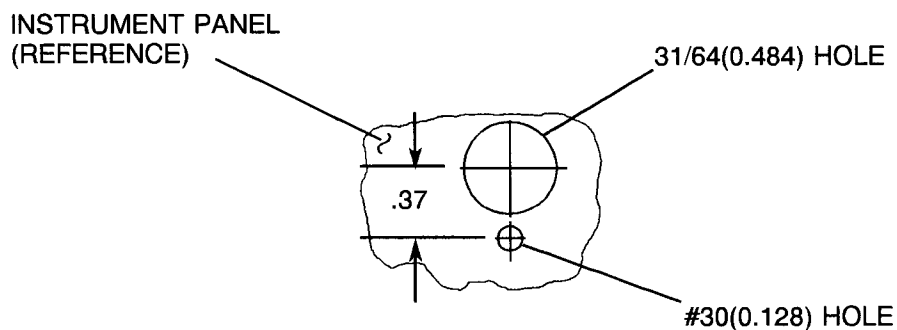
SK172-138

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

FWD ➡



DETAIL E
LANDING LIGHT SWITCH



DETAIL F
ENLARGED SWITCH CUTOUT IN INSTRUMENT PANEL

Figure 1. Push-Pull Switch Replacement (Sheet 4)

TITLE PUSH-PULL SWITCH REPLACEMENT - T41C

EFFECTIVITY

MODEL(S)

T41C

SERIAL NUMBERS

R172-0257 THRU R172-0301
R1720426 THRU R1720432

DESCRIPTION

The following procedures provide instructions to replace existing electrical push-pull switches on the instrument panel.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

SEB93-15

CHANGE IN WEIGHT AND BALANCE

MODEL T41C

WEIGHT INCREASE Negligible

October 1, 1993

Page 1 of 9

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. The Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

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SERVICE KIT

SK172-139

MATERIAL INFORMATION

Master Switch Replacement.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-139-1	1	Kit, Consisting of the following parts:
MS24524-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
0770719-2	1	Diode Assembly
	1	Instructions

Pitot Heat, Rotating Beacon and Strobe Light Switch Replacement

PART NUMBER	QUANTITY	DESCRIPTION
SK172-139-2	1	Kit, Consisting of the following parts:
MS24523-22	1	Switch
S1367-1-6	2	Terminal
0509106-6	1	Placard
	1	Instructions

Nav Light Switch Replacement.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-139-3	1	Kit, Consisting of the following parts:
MS24524-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
	1	Instructions

SERVICE KIT

SK172-139

Landing Light Switch Replacement.

PART NUMBER	QUANTITY	DESCRIPTION
SK172-139-4	1	Kit, Consisting of the following parts:
MS27407-1	1	Switch
S1367-1-6	3	Terminal
0509106-7	1	Placard
0509106-8	1	Jumper Wire
	1	Instructions

ACCOMPLISHMENT INSTRUCTIONS

1. Master Switch Replacement (SK172-139-1).
 - A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cable stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail A, Sheet 2) Gain access and remove existing master switch from instrument panel. Disconnect wiring and remove and discard switch.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
 - D. (Refer to Figure 1, Detail G, Sheet 5) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - E. (Refer to Figure 1, Detail A, Sheet 2) Install 0509106-6 placard on instrument panel as shown.
 - F. Connect the wires to the switch terminals as shown on the illustration.
 - G. Install new switch in instrument panel using hardware furnished with switch.
 - H. Reconnect battery cables and check new switch for proper operation.
NOTE: If more than one switch is going to be installed, apply instructions as required.
2. Pitot Heat, Rotating Beacon and Strobe Light Switch Replacement (SK172-139-2).
 - A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail B, Sheet 2) Gain access and remove existing pitot heat switch, if required, from instrument panel. Disconnect wiring and remove and discard switch.
 - C. (Refer to Figure 1, Detail D, Sheet 3) Gain access and remove existing beacon light switch, if required, from instrument panel. Disconnect wiring and remove switch.
 - D. (Refer to Figure 1, Detail F, Sheet 4) Gain access and remove existing Strobe light switch, if required, from instrument panel. Disconnect wiring and remove switch.
 - E. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the wires.

SERVICE KIT

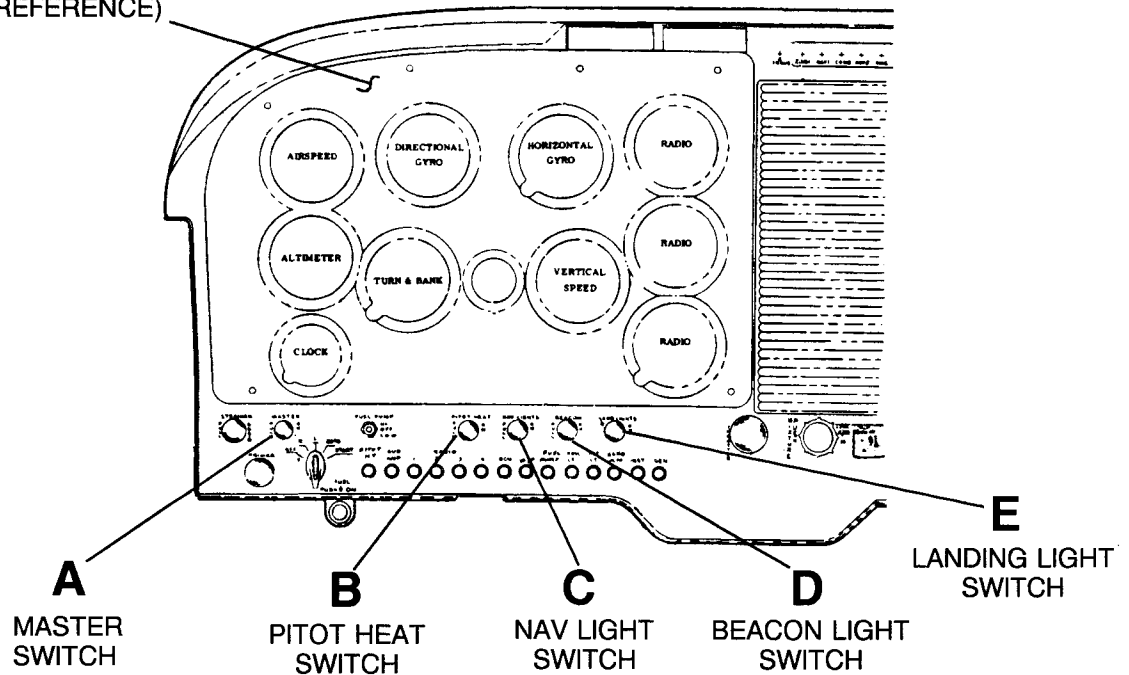
SK172-139

- F. (Refer to Figure 1, Detail G, Sheet 5) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - G. (Refer to Figure 1, Details B, D or F, Sheet 2, 3 or 4) Install 0509106-6 placard on instrument panel as shown.
 - H. Connect the wires to the switch terminals as shown on the illustration required.
 - I. Install new switch in instrument panel using hardware furnished with switch.
 - J. Reconnect battery cables and check new switch for proper operation.
3. Nav Light Switch Replacement (SK172-139-3).
- A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail C, Sheet 3) Gain access and remove existing nav light switch from instrument panel. Disconnect wiring and remove and discard switch.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
 - D. (Refer to Figure 1, Detail G, Sheet 5) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - E. (Refer to Figure 1, Detail C, Sheet 3) Install 0509106-6 placard on instrument panel as shown.
 - F. Connect the wires to the switch terminals as shown on the illustration.
 - G. Install new switch in instrument panel using hardware furnished with switch.
 - H. Reconnect battery cables and check new switch for proper operation.
4. Landing Light Switch Replacement (SK172-139-4).
- A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail E, Sheet 4) Gain access and remove existing landing light switch from instrument panel. Disconnect wiring and remove and discard switch.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires as shown.
 - D. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - E. Refer to Figure 1, Detail E, Sheet 4) Install 0509106-7 placard on instrument panel as shown.
 - F. Connect the wires to the switch terminals and install 0509106-8 jumper wire on switch terminals as shown on the illustration.
 - G. Install new switch in instrument panel using hardware furnished with switch.
 - H. Reconnect battery cables and check new switch for proper operation.
5. Make an entry in the airplane logbook stating which applicable service kit has been installed.

SERVICE KIT

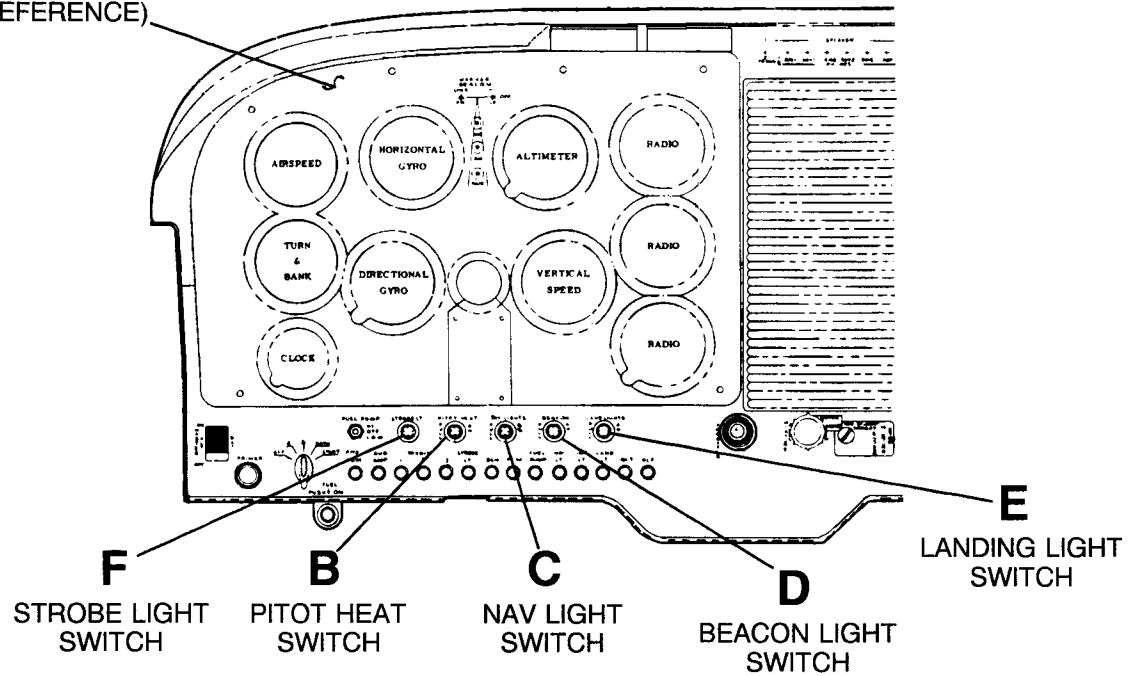
SK172-139

SHOCK PANEL
COVER
(REFERENCE)



R172-0257 THRU R172-0301

SHOCK PANEL
COVER
(REFERENCE)



R1720426 THRU R1720432

Figure 1. Push-Pull Switch Replacement (Sheet 1 of 5)

SERVICE KIT

SK172-139

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

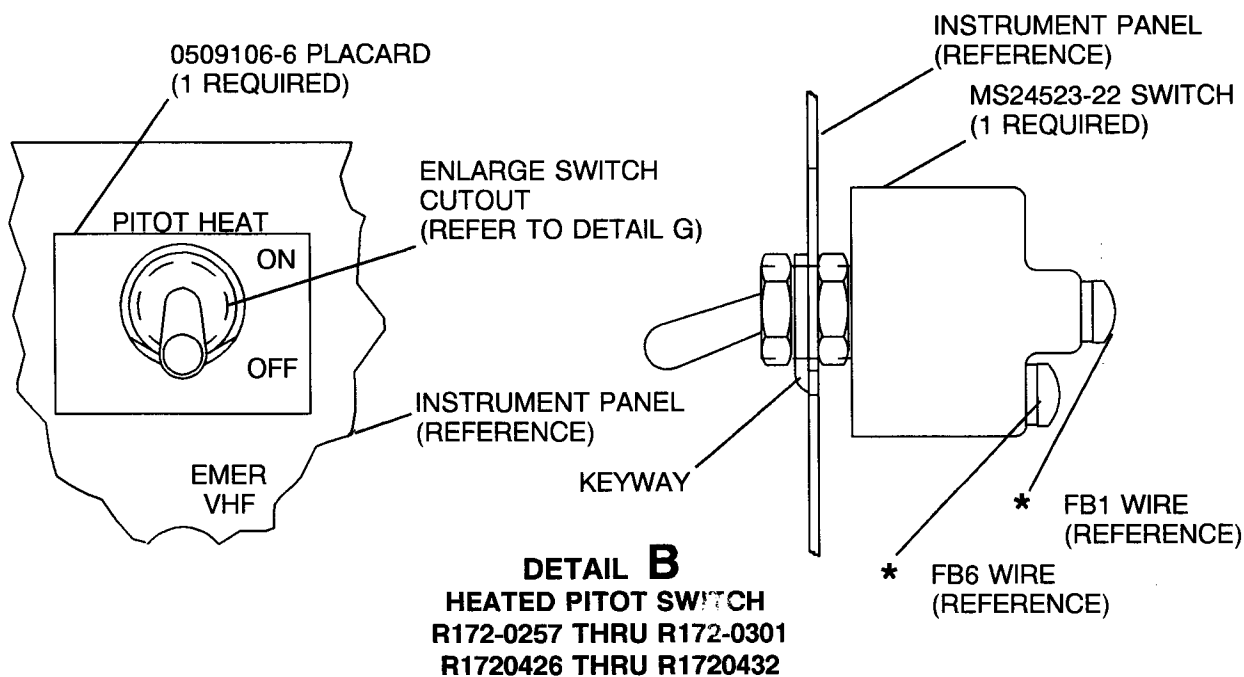
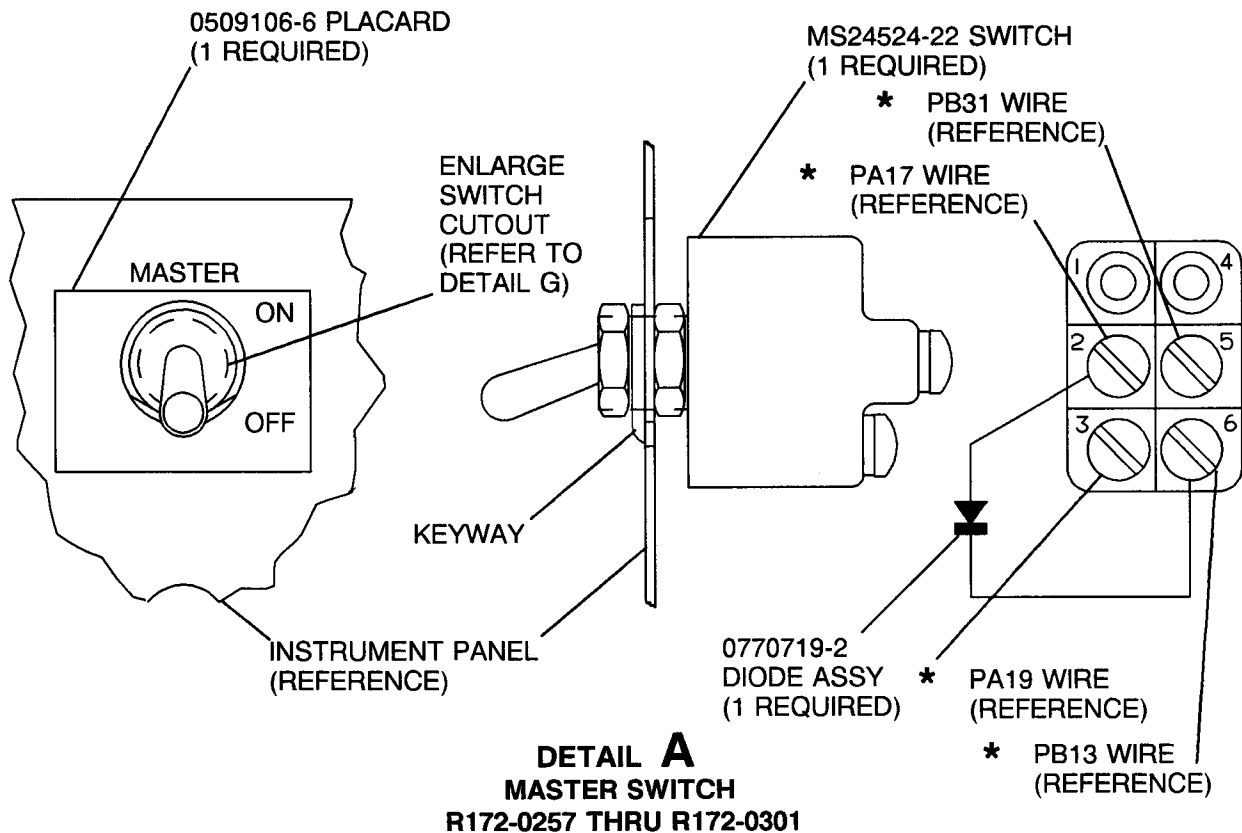


Figure 1. Push-Pull Switch Replacement (Sheet 2)

SERVICE KIT

SK172-139

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

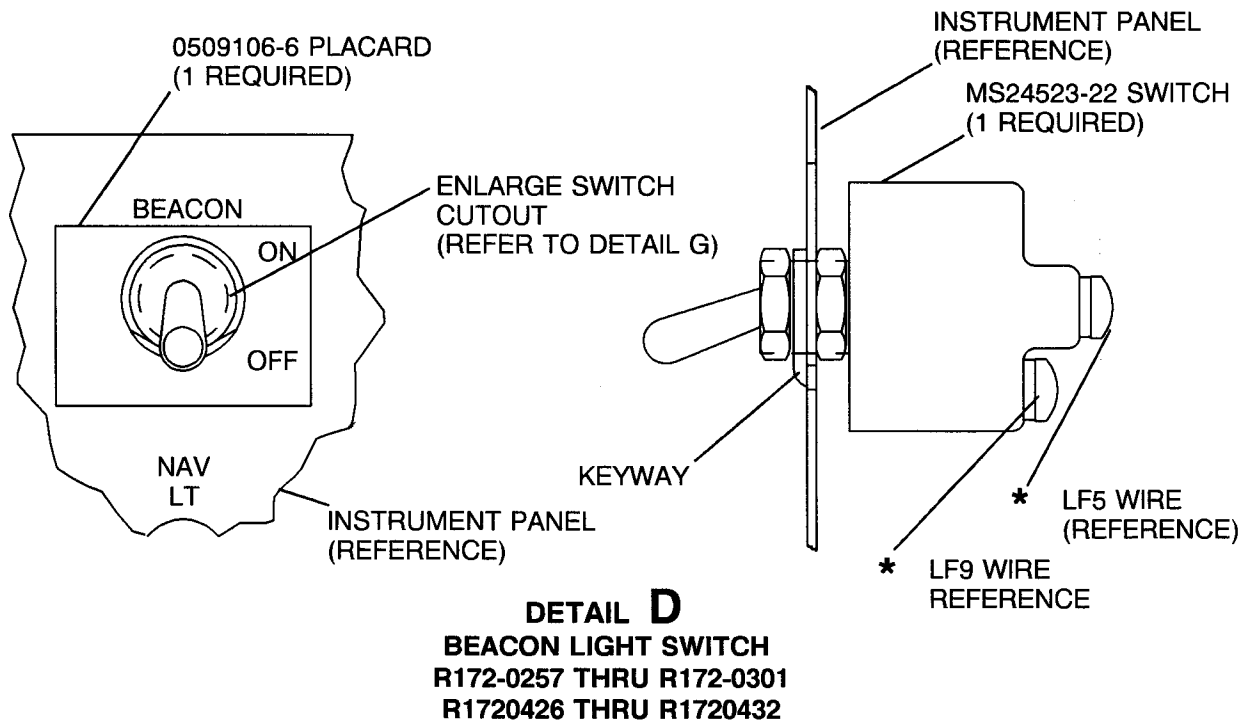
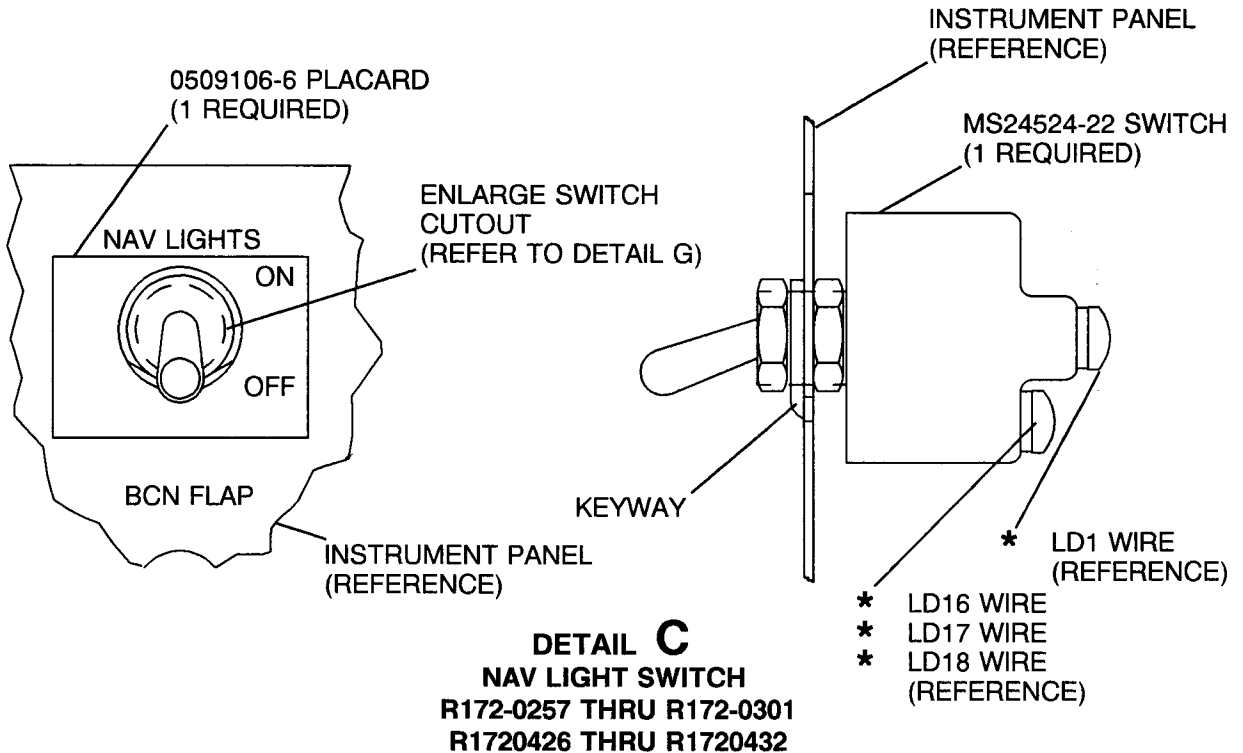


Figure 1. Push-Pull Switch Replacement (Sheet 3)

SERVICE KIT

SK172-139

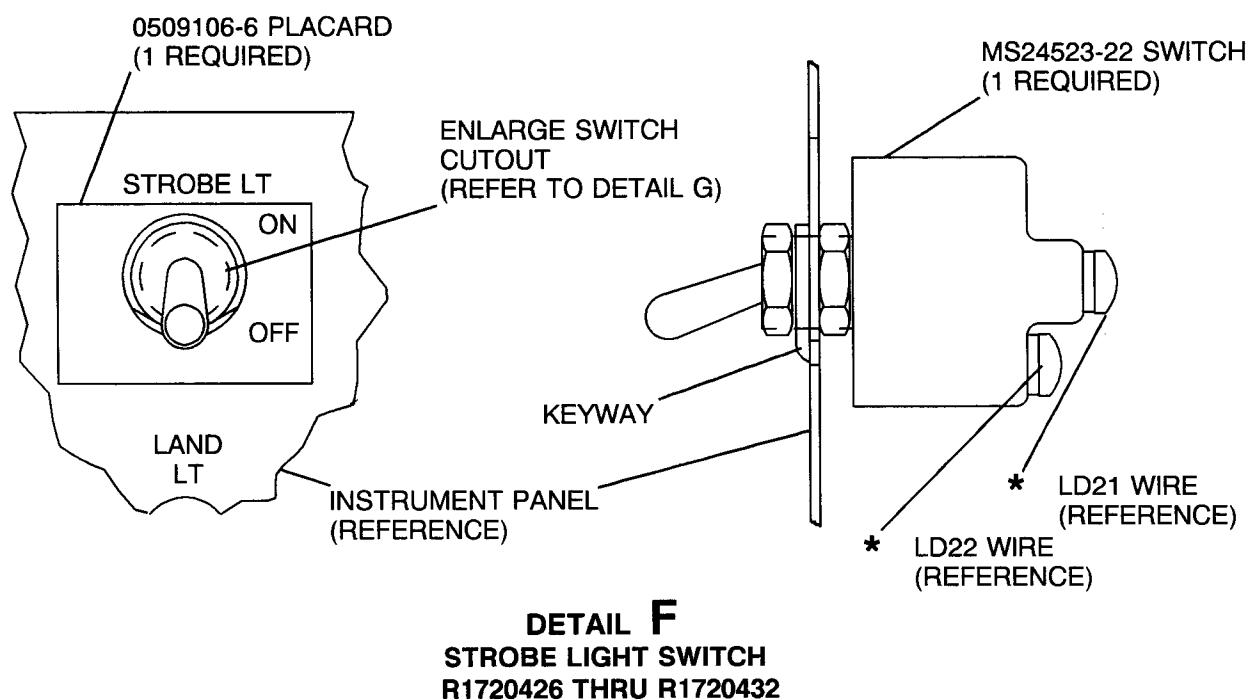
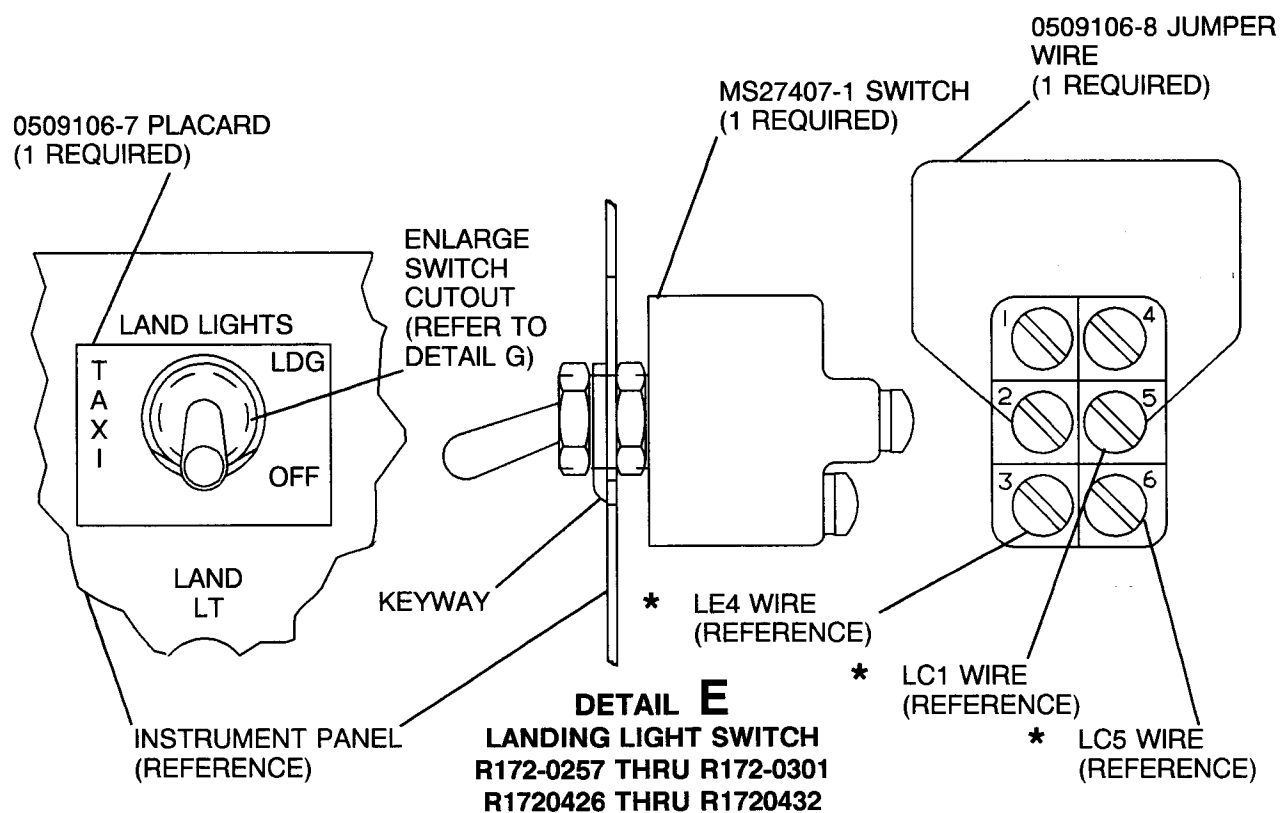
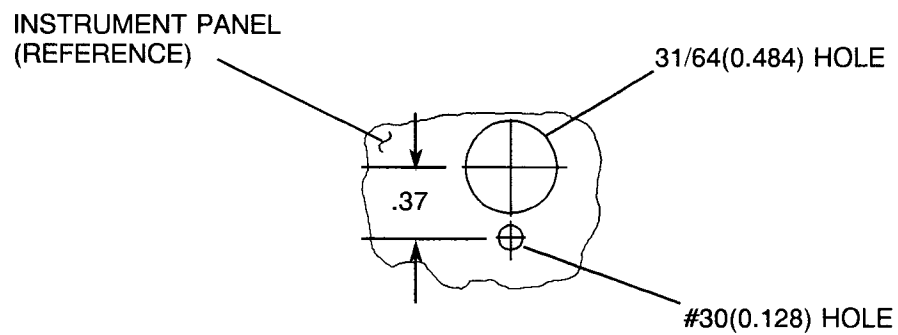


Figure 1. Push-Pull Switch Replacement (Sheet 4)



DETAIL G
ENLARGED SWITCH CUTOUT IN INSTRUMENT PANEL

Figure 1. Push-Pull Switch Replacement (Sheet 5)

TITLE PUSH-PULL SWITCH REPLACEMENT - T41D

EFFECTIVITY

MODEL(S)

T41D

SERIAL NUMBERS

R172-0302 thru R1720425
R1720433 thru R1720444

DESCRIPTION

The following procedures provide instructions to replace existing electrical push-pull switches on the instrument panel.

APPROVAL

FAA approval has been obtained on technical data in this publication that affects airplane type design.

REFERENCE

SEB93-15

CHANGE IN WEIGHT AND BALANCE

MODEL T41D

WEIGHT INCREASE Negligible

October 1, 1993

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SERVICE KIT

SK172-140

MATERIAL INFORMATION

Master Switch Replacement for airplanes R172-0302 thru R1720409 (SK172-140-1).

PART NUMBER	QUANTITY	DESCRIPTION
SK172-140-1	1	Kit, Consisting of the following parts:
MS24524-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
	1	Instructions

Pitot Heat and Beacon Light Switch Replacement (SK172-140-2).

PART NUMBER	QUANTITY	DESCRIPTION
SK172-140-2	1	Kit, Consisting of the following parts:
MS24523-22	1	Switch
S1367-1-6	2	Terminal
0509106-6	1	Placard
	1	Instructions

Nav Light Switch Replacement (SK172-140-3).

PART NUMBER	QUANTITY	DESCRIPTION
SK172-140-3	1	Kit. Consisting of the following parts:
MS24523-22	1	Switch
S1367-1-6	4	Terminal
0509106-6	1	Placard
	1	Instructions

SERVICE KIT

SK172-140

Landing Light Switch Replacement (SK171-140-4).

PART NUMBER	QUANTITY	DESCRIPTION
SK172-140-4	1	Kit, Consisting of the following parts:
MS27407-1	1	Switch
S1367-1-6	3	Terminal
0509106-7	1	Placard
0509106-8	1	Jumper Wire
	1	Instructions

ACCOMPLISHMENT INSTRUCTIONS

1. Master Switch Replacement (SK172-140-1).

- A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:

WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS

- B. (Refer to Figure 1, Detail A, Sheet 2) Gain access and remove existing master switch from instrument panel. Disconnect wiring and remove and discard switch.
- C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
- D. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
- E. (Refer to Figure 1, Detail A, Sheet 2) Install 0509106-6 placard on instrument panel as shown.
- F. Connect the wires to the switch terminals as shown on the illustration.
- G. Install new switch in instrument panel using hardware furnished with switch.
- H. Reconnect battery cable and check new switch for proper operation.

NOTE: If more than one switch is going to be installed, apply instructions as required.

2. Pitot Heat and Beacon Light Switch Replacement (SK172-140-2).

- A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:

WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS

- B. (Refer to Figure 1, Detail B, Sheet 2) Gain access and remove existing pitot heat switch from instrument panel. Disconnect wiring and remove and discard switch.
- C. (Refer to Figure 1, Detail D, Sheet 3) Gain access and remove existing beacon light switch from instrument panel. Disconnect wiring and remove and discard switch.
- D. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
- E. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.

SERVICE KIT

SK172-140

- F. (Refer to Figure 1, Details B or D, Sheet 2 or 3) Install 0509106-6 placard on instrument panel as shown.
 - G. Connect the wires to the switch terminals as shown on the illustration required.
 - H. Install new switch in instrument panel using hardware furnished with switch.
 - I. Reconnect battery cables and check new switch for proper operation.
3. Nav Light Switch Replacement (SK172-140-3).
- A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail C, Sheet 3) Gain access and remove existing nav light switch from instrument panel. Disconnect wiring and remove and discard switch.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires.
 - D. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - E. (Refer to Figure 1, Detail C, Sheet 3) Install 0509106-6 placard on instrument panel as shown.
 - F. Connect the wires to the switch terminals as shown on the illustration.
 - G. Install new switch in instrument panel using hardware furnished with switch.
 - H. Reconnect battery cables and check new switch for proper operation.
4. Landing Light Switch Replacement (SK172-140-4).
- A. Disconnect all electrical power from the airplane. Attach maintenance warning tags to the battery cables stating:
WARNING: DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS
 - B. (Refer to Figure 1, Detail E, Sheet 4) Gain access and remove existing landing light switch from instrument panel. Disconnect wiring and remove and discard switch.
 - C. Remove existing S1367-1-8 terminals from the affected wires as shown. Install the new S1367-1-6 terminals on the affected wires as shown.
 - D. (Refer to Figure 1, Detail F, Sheet 4) Enlarge existing cutout in the instrument panel where the old switch was removed per the dimensions shown. Deburr and clean hole as required.
 - E. Refer to Figure 1, Detail E, Sheet 4) Install 0509106-7 placard on instrument panel as shown.
 - F. Connect the wires to the switch terminals and install 0509106-8 jumper wire on switch terminals as shown on the illustration.
 - G. Install new switch in instrument panel using hardware furnished with switch.
 - H. Reconnect battery cables and check new switch for proper operation.
5. Make an entry in the airplane logbook stating which applicable service kit has been installed.

SERVICE KIT

SK172-140

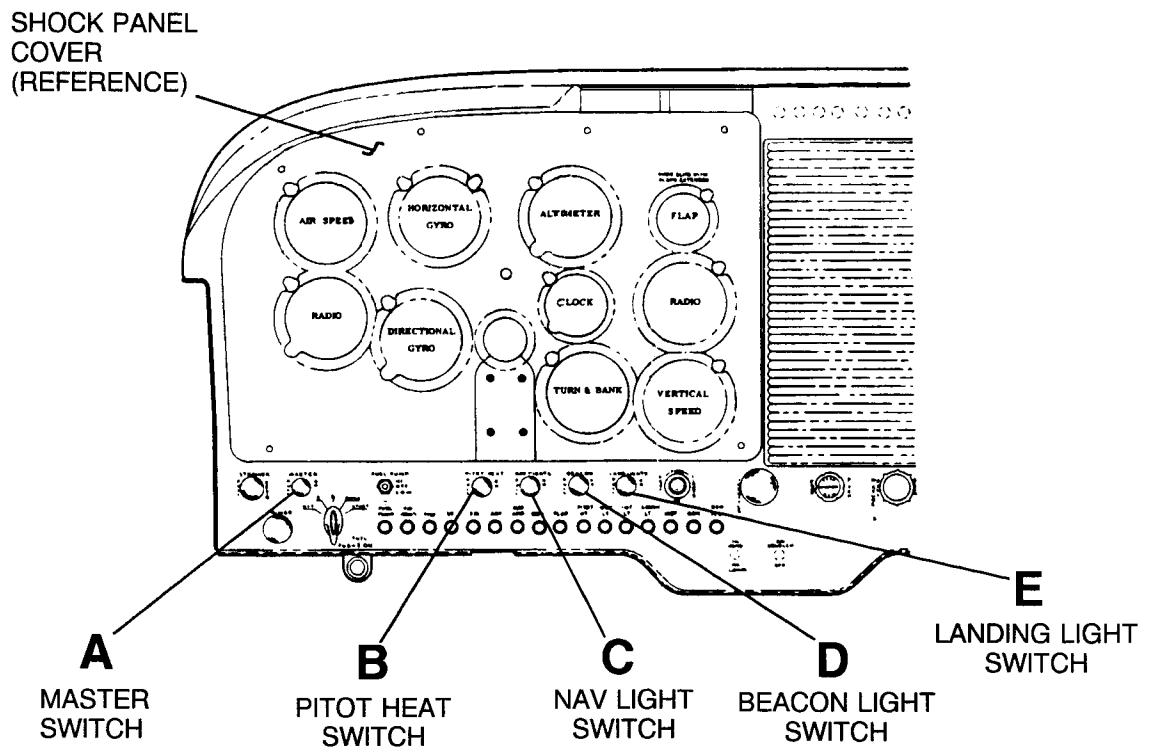
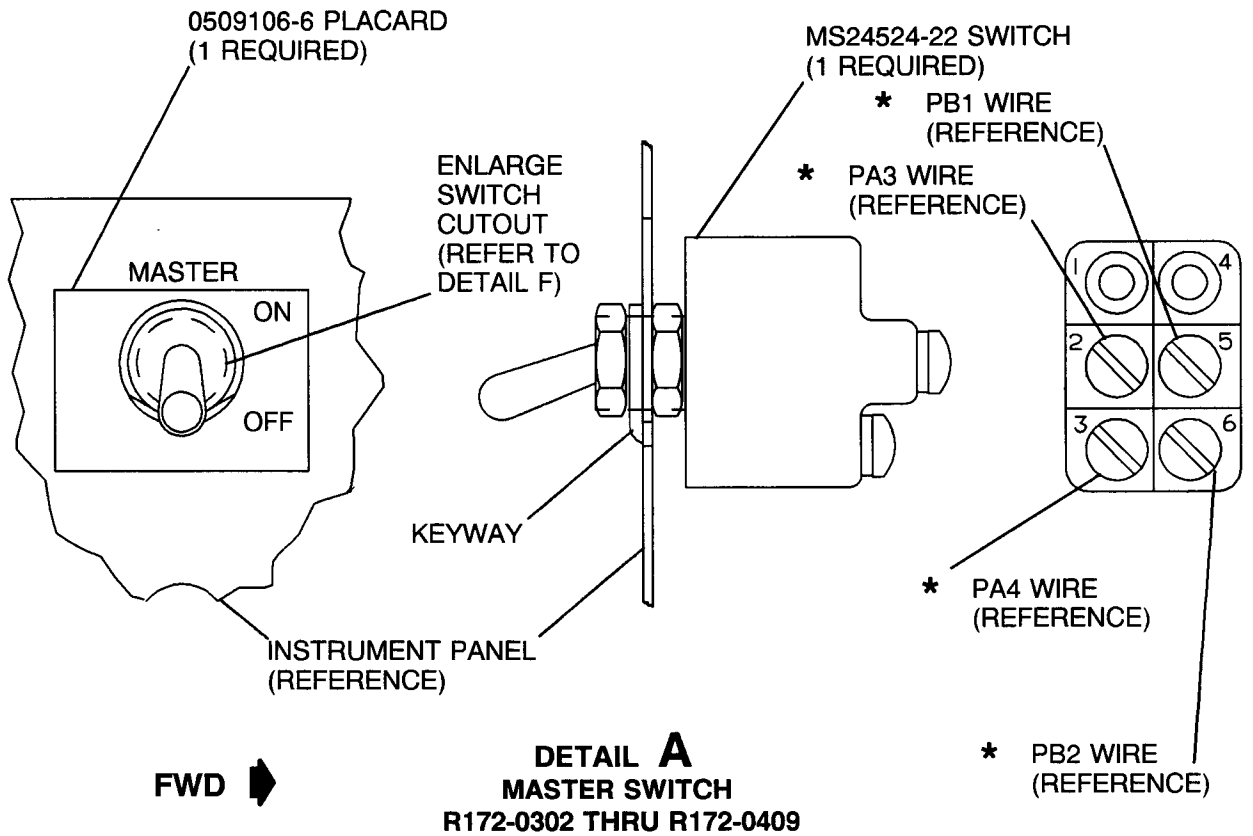


Figure 1. Push-Pull Switch Replacement (Sheet 1 of 4)

SERVICE KIT

SK172-140

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL



FWD ➡

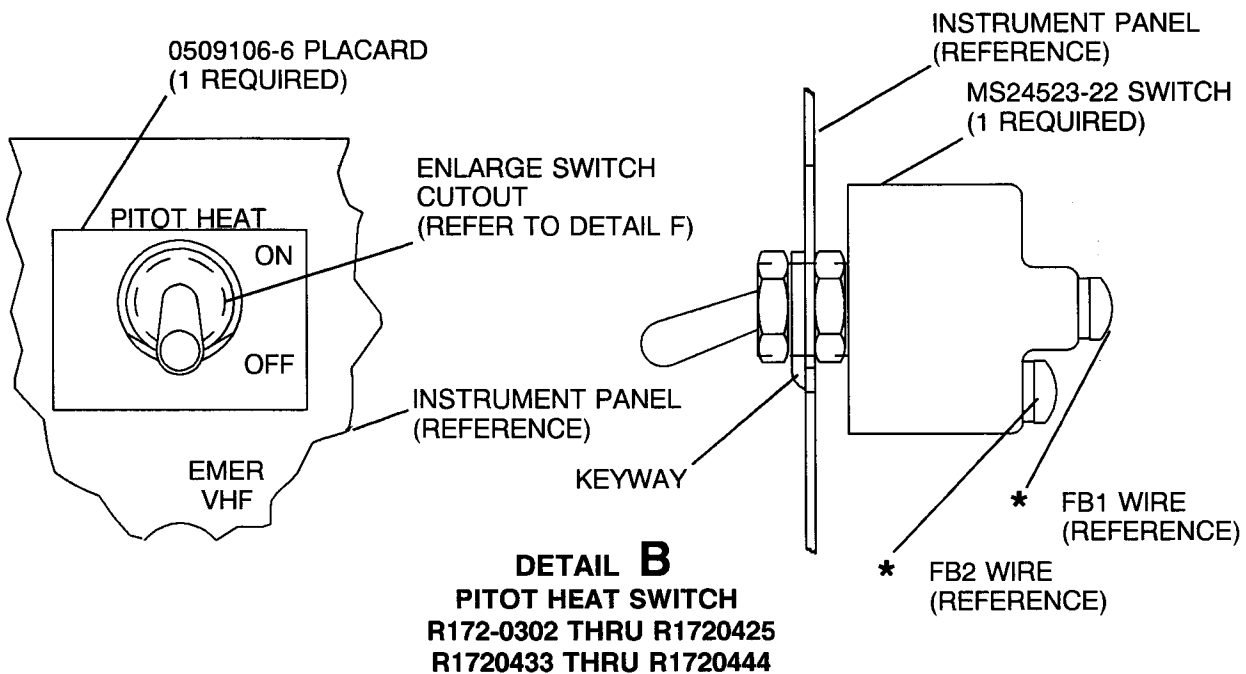


Figure 1. Push-Pull Switch Replacement (Sheet 2)

SERVICE KIT

SK172-140

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL

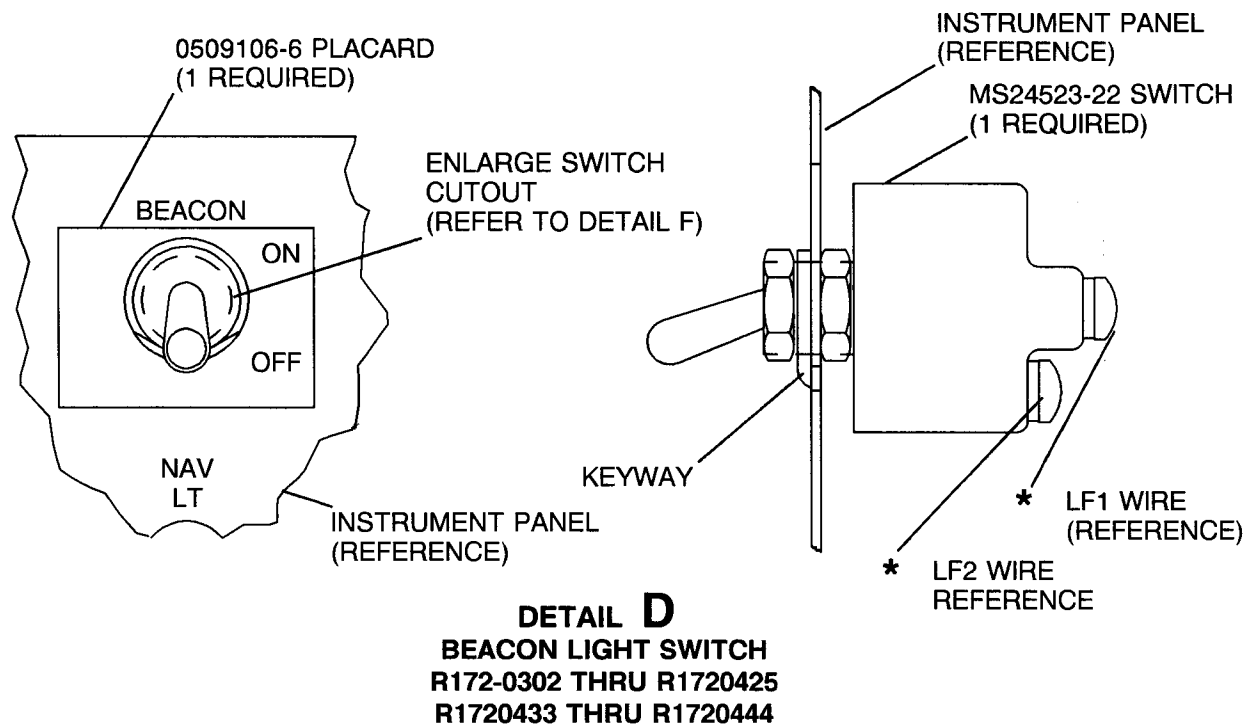
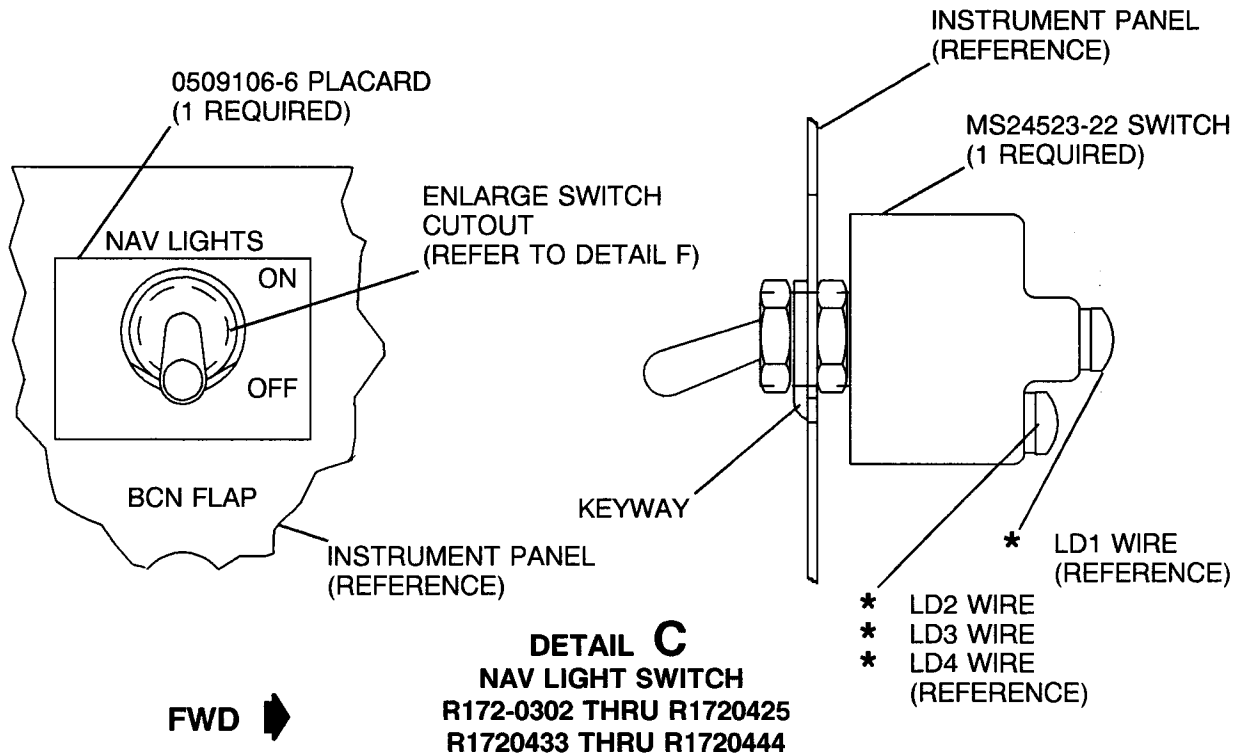
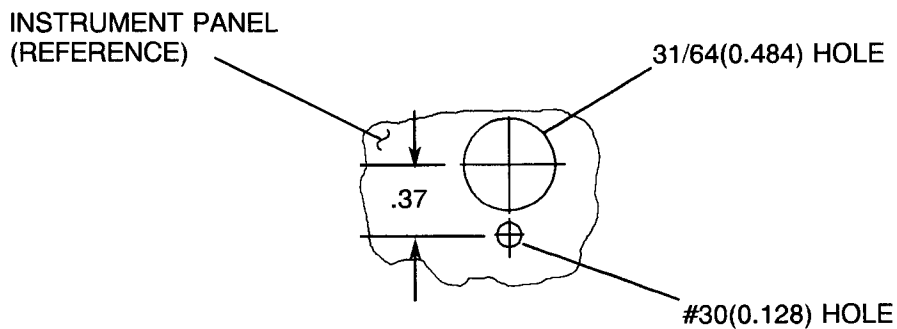
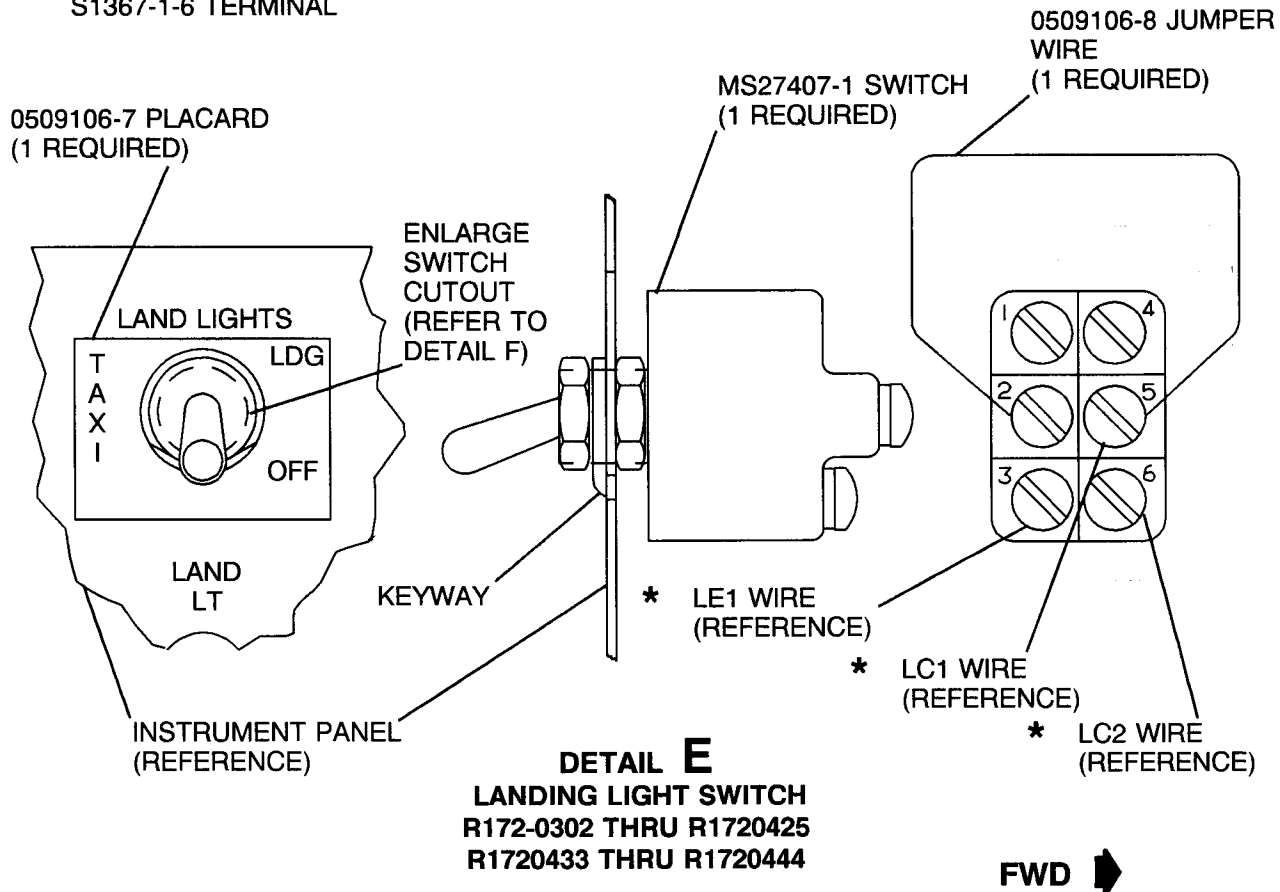


Figure 1. Push-Pull Switch Replacement (Sheet 3)

SERVICE KIT

SK172-140

- * REMOVE S1367-1-8 TERMINAL AND INSTALL S1367-1-6 TERMINAL



DETAIL F
ENLARGED SWITCH CUTOUT IN INSTRUMENT PANEL

Figure 1. Push-Pull Switch Replacement (Sheet 4)